TFT-LCD MONITOR

Chassis	Model
MJ15AS*	510N
MJ15BS*	510T
MJ17AS*	710N
MJ17BS*	710T
MJ19AS*	910N
MJ19BS*	910T
MJ19ES*	913N

SERVICE Manual

TFT-LCD MONITOR

Simple Stand

Pivot Stand

Simple Stand

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1 Precautions

Follow these safety, servicing and ESD precautions to prevent damage and to protect against potential hazards such as electrical shock.

1-1 Safety Precautions

1-1-1 Warnings

1. For continued safety, do not attempt to modify the circuit board.
2. Disconnect the AC power and DC power jack before servicing.

1-1-2 Servicing the LCD Monitor

1. When servicing the LCD Monitor, Disconnect the AC line cord from the AC outlet.
2. It is essential that service technicians have an accurate voltage meter available at all times. Check the calibration of this meter periodically.

1-1-3 Fire and Shock Hazard

Before returning the monitor to the user, perform the following safety checks:

1. Inspect each lead dress to make certain that the leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the monitor.
2. Inspect all protective devices such as nonmetallic control knobs, insulating materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacitor networks, mechanical insulators, etc.
3. Leakage Current Hot Check (Figure 1-1):

   WARNING: Do not use an isolation transformer during this test.

   Use a leakage current tester or a metering system that complies with American National Standards Institute (*ANSI C101.1, Leakage Current for Appliances*), and Underwriters Laboratories (*UL Publication UL1410, 59.7*).

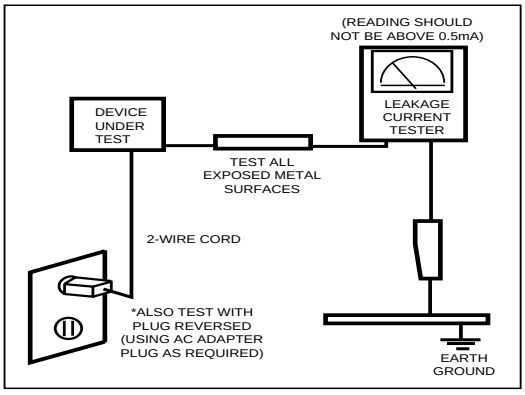


Figure 1-1. Leakage Current Test Circuit

4. With the unit completely reassembled, plug the AC line cord directly into a 120V AC outlet. With the unit's AC switch first in the ON position and then OFF, measure the current between a known earth ground (metal water pipe, conduit, etc.) and all exposed metal parts, including: metal cabinets, screwheads and control shafts. The current measured should not exceed 0.5 milliamp. Reverse the power-plug prongs in the AC outlet and repeat the test.

1-1-4 Product Safety Notices

Some electrical and mechanical parts have special safety-related characteristics which are often not evident from visual inspection. The protection they give may not be obtained by replacing them with components rated for higher voltage, wattage, etc. Parts that have special safety characteristics are identified by ⚠ on schematics and parts lists. A substitute replacement that does not have the same safety characteristics as the recommended replacement part might create shock, fire and/or other hazards. Product safety is under review continuously and new instructions are issued whenever appropriate.

1-2 Servicing Precautions

WARNING: **An electrolytic capacitor installed with the wrong polarity might explode.**

Caution: **Before servicing units covered by this service manual, read and follow the Safety Precautions section of this manual.**

Note: **If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions, always follow the safety precautions.**

1-2-1 General Servicing Precautions

1. Always unplug the unit's AC power cord from the AC power source and disconnect the DC Power Jack before attempting to:
   (a) remove or reinstall any component or assembly, (b) disconnect PCB plugs or connectors, (c) connect a test component in parallel with an electrolytic capacitor.
2. Some components are raised above the printed circuit board for safety. An insulation tube or tape is sometimes used. The internal wiring is sometimes clamped to prevent contact with thermally hot components. Reinstall all such elements to their original position.
3. After servicing, always check that the screws, components and wiring have been correctly reinstalled. Make sure that the area around the serviced part has not been damaged.
4. Check the insulation between the blades of the AC plug and accessible conductive parts (examples: metal panels, input terminals and earphone jacks).
5. Insulation Checking Procedure: Disconnect the power cord from the AC source and turn the power switch ON. Connect an insulation resistance meter (500 V) to the blades of the AC plug.

   The insulation resistance between each blade of the AC plug and accessible conductive parts (see above) should be greater than 1 megohm.
6. Always connect a test instrument's ground lead to the instrument chassis ground before connecting the positive lead; always remove the instrument's ground lead last.

1-3 Electrostatically Sensitive Devices (ESD) Precautions

Some semiconductor (solid state) devices can be easily damaged by static electricity. Such components are commonly called Electrostatically Sensitive Devices (ESD). Examples of typical ESD are integrated circuits and some field-effect transistors. The following techniques will reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground. Alternatively, wear a discharging wrist-strap device. To avoid a shock hazard, be sure to remove the wrist strap before applying power to the monitor.
2. After removing an ESD-equipped assembly, place it on a conductive surface such as aluminum foil to prevent accumulation of an electrostatic charge.
3. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ESDs.
4. Use only a grounded-tip soldering iron to solder or desolder ESDs.
5. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ESDs.
6. Do not remove a replacement ESD from its protective package until you are ready to install it. Most replacement ESDs are packaged with leads that are electrically shorted together by conductive foam, aluminum foil or other conductive materials.
7. Immediately before removing the protective material from the leads of a replacement ESD, touch the protective material to the chassis or circuit assembly into which the device will be installed.

   Caution: Be sure no power is applied to the chassis or circuit and observe all other safety precautions.
8. Minimize body motions when handling unpackaged replacement ESDs. Motions such as brushing clothes together, or lifting your foot from a carpeted floor can generate enough static electricity to damage an ESD.

2 Product Specifications

2-1 MJ15AS*/MJ15BS*/MJ17AS*/MJ17BS* Specifications

Item	Description	
	MJ15AS*/MJ15BS*	MJ17AS*/MJ17BS*
LCD Panel	TFT-LCD panel, RGB vertical stripe, normally black transmissive, 15-Inch viewable, 0.297 (H) x 0.297 (V) mm pixel pitch	TFT-LCD panel, RGB vertical stripe, normally black transmissive, 17-Inch viewable, 0.264 (H) x 0.264 (V) mm pixel pitch
Scanning Frequency	Horizontal : 31 kHz ~ 61 kHz (Automatic) Vertical : 50 Hz ~ 75 Hz	Horizontal : 30 kHz ~ 81 kHz (Automatic) Vertical : 56 Hz ~ 75 Hz
Display Colors	16.2 Million colors	
Maximum Resolution	Horizontal : 1024 Pixels Vertical : 768 Pixels	Horizontal : 1280 Pixels Vertical : 1024 Pixels
Input Video Signal	Analog, 0.714 Vp-p ± 5% positive at 75 Ω, internally terminated	[Digital(TMDS): MJ15BS*, MJ17BS*]
Input Sync Signal	Type : Separate H/V sync, Composite H/V Level : TTL level (V high ≥ 2.0 V, V low ≤ 0.8 V), Sync-on-Green (≤ –0.25 V)	
Maximum Pixel Clock rate	80 MHz	135 MHz
Active Display Horizontal/Vertical	304.1 mm / 228.1 mm	338 ± 3 mm / 270 ± 3 mm
AC power voltage & Frequency	AC 90 ~ 264 Volts, 60/50 Hz ± 12V / 3A	AC 90 ~ 264 Volts, 60/50 Hz ± 3 Hz
Power Consumption	25W (normal)	34W (normal)
Dimensions	Simple Stand / Pivot Stand	Simple Stand
Set (W x D x H) Package	13.3 x 2.2 x 10.7 Inches (338.0 x 56.3 x 272.0 mm) State of stand disassembled 13.3 x 6.9 x 13.3 Inches (338.0 x 175.0 x 337.0 mm) State of stand installed 15.3 x 4.9 x 15.1 Inches (388 x 125 x 383 mm)	14.6 x 2.4 x 12.4 Inches (370.0 x 60.3 x 316.0 mm) State of stand disassembled 14.6 x 6.9 x 15 Inches (370.0 x 175.0 x 381.0 mm) State of stand installed 17.9 x 5.6 x 17.2 Inches (455 x 141 x 437 mm)
Weight (Set/Package)	3.1 kg (6.8 lbs) / 4.25 kg (9.4 lbs)	4.5 kg (9.9 lbs) / 6.15 kg (13.6 lbs)
Dimensions	-	Pivot Stand
Set (W x D x H) Package		14.6 x 2.4 x 12.4 Inches (370.0 x 60.3 x 316.0 mm) State of stand disassembled 14.6 x 7.5 x 16.0 Inches (370.0 x 190.9 x 406.8 mm) State of stand installed 20.0 x 10.1 x 16.0 Inches (508 x 256 x 407 mm)
Weight (Set/Package)	-	6.25 kg (13.8 lbs) / 7.95 kg (17.5 lbs)
Environmental Considerations	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C) Operating Humidity : 10 % ~ 80 % Storage Temperature : -13°F ~ 113°F (-25°C ~ 45°C) Storage Humidity : 5 % ~ 95 %	
• Designs and specifications are subject to change without prior notice.		

2-2 MJ19AS*/MJ19BS*/MJ19ES* Specifications

Item	Description	
LCD Panel	TFT-LCD panel, RGB vertical stripe, normally black transmissive, 19-Inch viewable, 0.297 (H) x 0.297 (V) mm pixel pitch	
Scanning Frequency	Horizontal : 31 kHz ~ 81 kHz (Automatic) Vertical : 55 Hz ~ 76 Hz	
Display Colors	16.2 Million colors	
Maximum Resolution	Horizontal : 1280 Pixels Vertical : 1024 Pixels	
Input Video Signal	Analog, 0.7 Vp-p ± 5% positive at 75 Ω, [Digital(TMDS): MJ19BS*] internally terminated	
Input Sync Signal	Type : Separate H/V sync, Composite H/V Level : TTL level (V high ≥ 2.0 V, V low ≤ 0.8 V), Sync-on-Green (≤ –0.25 V)	
Maximum Pixel Clock rate	135 MHz	
Active Display Horizontal/Vertical	376.32 mm ± 3 mm / 301.056 mm ± 3 mm	
AC power voltage & Frequency	AC 90 ~ 264 Volts, 60/50 Hz ± 3Hz	
Power Consumption	38W (normal)	
Dimensions	Simple Stand	Pivot Stand
Set (W x D x H) Package	16.4 x 2.4 x 13.8 Inches (416.6 x 60.2 x 349.4 mm) State of stand disassembled 16.4 x 7.7 x 16.7 Inches (416.6 x 195.7 x 424.6 mm) State of stand installed 20.0 x 5.9 x 19.4 Inches (509 x 150 x 494 mm)	16.4 x 2.4 x 13.8 Inches (416.6 x 60.2 x 349.4 mm) State of stand disassembled 16.4 x 7.5 x 16.7 Inches (416.6 x 190.9 x 423.4 mm) State of stand installed 21.1 x 9.4 x 17.4 Inches (535 x 238 x 443 mm)
Weight (Set/Package)	5.85 kg (12.9 lbs) / 7.8 kg (17.2 lbs)	7.30 kg (16.1 lbs) / 9.1 kg (20.1 lbs)
Environmental Considerations	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C) Operating Humidity : 10 % ~ 80 % Storage Temperature : -13°F ~ 113°F (-25°C ~ 45°C) Storage Humidity : 5 % ~ 95 %	
• Designs and specifications are subject to change without prior notice.		

2-3 Pin Assignments

Sync Type / Pin No.	15-Pin D-Sub Signal Cable Connector		
	Separate	Composite	Sync-on-green
1	Red	Red	Red
2	Green	Green	Green + H/V Sync.
3	Blue	Blue	Blue
4	GND	GND	GND
5	DDC Return (GND)	DDC Return (GND)	DDC Return (GND)
6	GND-R	GND-R	GND-R
7	GND-G	GND-G	GND-G
8	GND-B	GND-B	GND-B
9	DDC Power Input (+5V)	DDC Power Input (+5V)	DDC Power Input (+5V)
10	Self Raster	Self Raster	Self Raster
11	GND	GND	GND
12	Bi-Dr Data (SDA)	Bi-Dr Data (SDA)	Bi-Dr Data (SDA)
13	H-Sync.	H/V-Sync.	Not Used
14	V-Sync.	Not Used	Not Used
15	DDC Clock (SCL)	DDC Clock (SCL)	DDC Clock (SCL)

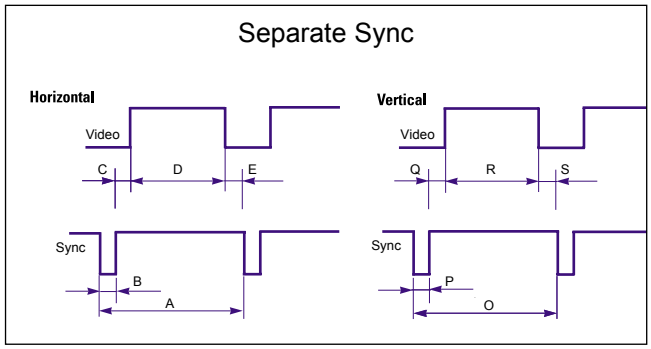
Sync Type / Pin No.	24P DVI-D		
1	Rx2-	13	No Connection
2	Rx2+	14	+5V_M
3	GND	15	Self Raster
4	No Connection	16	+5V_M
5	No Connection	17	Rx0-
6	DDC Clock (SCL)	18	Rx0+
7	DDC Data (SDA)	19	NC
8	NC	20	No Connection
9	Rx1-	21	No Connection
10	Rx1+	22	NC
11	NC	23	RxC+
12	No Connection	24	RxC-

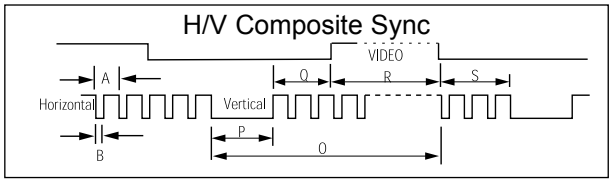
2-4 Timing Chart

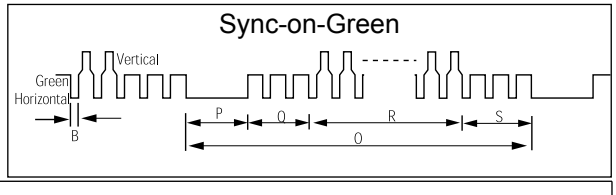
This section of the service manual describes the timing that the computer industry recognizes as standard for computer-generated video signals.

Table 2-1 Timing Chart

Mode / Timing	IBM		VESA (MJ15AS*/MJ15BS*/MJ17AS*/MJ17BS*/MJ19AS*/MJ19BS*/MJ19ES*)					VESA(MJ17AS*/MJ17BS*/ MJ19AS*/MJ19BS*/MJ19ES*)	
	VGA2/ 70 Hz 720 x 400	VGA3/ 60 Hz 640 x 480	640/75 Hz 640x480	800/60 Hz 800x600	800/75 Hz 800x600	1024/60 Hz 1024x768	1024/75 Hz 1024x768	1280/60 Hz 1280x1024	1280/75 Hz 1280x1024
fH (kHz)	31.469	31.469	37.500	37.879	46.875	48.363	60.023	63.981	79.975
A µsec	31.777	31.778	26.667	26.400	21.333	20.677	16.660	11.852	12.504
B µsec	3.813	3.813	2.032	3.200	1.616	2.092	1.219	1.037	1.067
C µsec	1.589	1.589	3.810	2.200	3.232	2.462	2.235	2.296	1.837
D µsec	26.058	26.058	20.317	20.000	16.162	15.754	13.003	9.259	9.481
E µsec	0.318	0.318	0.508	0.000	0.323	0.369	0.203	0.000	0.119
fV (Hz)	70.087	59.940	75.000	60.317	75.000	60.004	75.029	60.020	75.025
O msec	14.268	16.683	13.333	16.579	13.333	16.666	13.328	16.005	13.329
P msec	0.064	0.064	0.080	0.106	0.064	0.124	0.050	0.047	0.038
Q msec	0.858	0.794	0.427	0.607	0.448	0.600	0.466	0.594	0.475
R msec	13.155	15.761	12.800	15.840	12.800	15.880	12.795	15.630	12.804
S msec	0.191	0.064	0.027	0.0261	0.021	0.062	0.017	0.016	0.013
Clock Freq. (MHz)	28.322	26.175	31.500	40.000	49.500	75.000	78.750	108.000	135.000
Polarity H.Sync	Negative	Negative	Negative	Positive	Positive	Negative	Positive	Positive	Positive
V.Sync	Positive	Negative	Negative	Positive	Positive	Negative	Positive	Positive	Positive
Remark	Separate	Separate	Separate	Separate	Separate	Separate	Separate	Separate	Separate







A : Line time total	B : Horizontal sync width	O : Frame time total	P : Vertical sync width
C : Back porch	D : Active time	Q : Back porch	R : Active time
E : Front porch		S : Front porch	

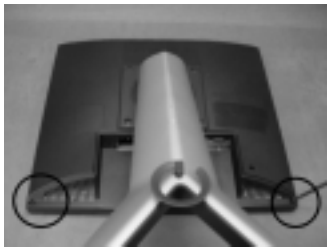
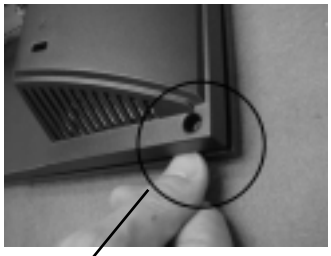
3 Disassembly and Reassembly

This section of the service manual describes the disassembly and reassembly procedures for the MJ15AS*/MJ17AS*/MJ19AS*/MJ15BS*/MJ17BS*/MJ19BS*/MJ19ES* TFT-LCD monitors.

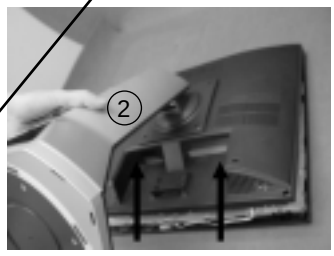
⚠ **WARNING: This monitor contains electrostatically sensitive devices. Use caution when handling these components.**

3-1 Disassembly

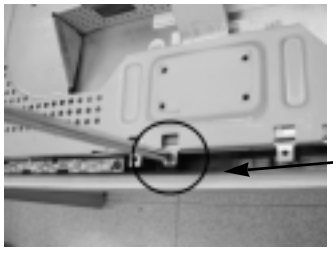
⚠ **Cautions: 1. Disconnect the monitor from the power source before disassembly.**

1. After placing monitor on the cushioned table, remove two screws on the left and right of the bottom.



2. Disconnect back cover from monitor after grabbing the right edge of the set ((1)) and lifting the stand((2)).



3. Remove 2 screws from the shield.

4. Disconnect function cable from the cover front and lift up the panel. Remove 4 screws from the panel shield. (Right / Left)

5. Lift up the panel shield and carefully remove the silicon glue on the cables with a nipper.
⚠**Caution : Lamp wire may be easily damaged. Please use caution when removing the silicon.**

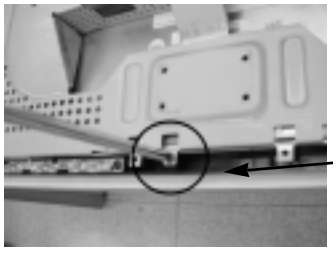
6. Remove 7 screws, 4 hexa screws from the boards and lift up the boards.
   ⚠ **Caution : When repairing panel only, disconnect just LVDS cable, Panel-Lamp / Wire marked in circle in the picture without removing the screws on board in order to lift the board up.**

7. This picture is panel.

3-2 MJ19ES*

1. After placing monitor on the cushioned table, remove 6 screws on the left and right of the bottom.

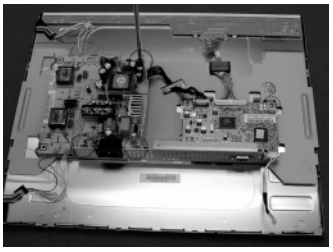
2. Lift the stand and lift up the back cover.



3. Remove 2 screws from the shield.

4. Disconnect function cable from the cover front and lift up the panel. Remove 4 screws from the panel shield. (Right / Left)

5. Lift up the panel shield and disconnect cable s.



6. Remove 5 screws, 2 hexa screws from the boards and lift up the boards.
   ⚠ **Caution : When repairing panel only, disconnect just LVDS cable, Panel-Lamp / Wire marked in circle in the picture without removing the screws on board in order to lift the board up.**

7. This picture is panel.

3-2 Reassembly

Reassembly procedures are in the reverse order of disassembly procedures.

4 Alignments and Adjustments

This section of the service manual explains how to use the RS232 JIG.
This function is needed for AD board change and program memory (IC110) change.

4-1 Required Equipment

The following equipment is necessary for adjusting the monitor:

- Computer with Windows 95, Windows 98, or Windows NT.
- MTI-2031 DDC MANAGER JIG

4-2 Automatic Color Adjustment

To input video, use 16 gray or any pattern using black and white.

1. Select english for OSD language.
2. Press the " ↵(Enter/Source)" key for 5 seconds.

4-3 DDC EDID Data Input

1. Input DDC EDID data when replacing AD PCB.
2. Receive/Download the proper DDC file for the model from HQ quality control department.
   Install the below jig (Figure 1) and enter the data.

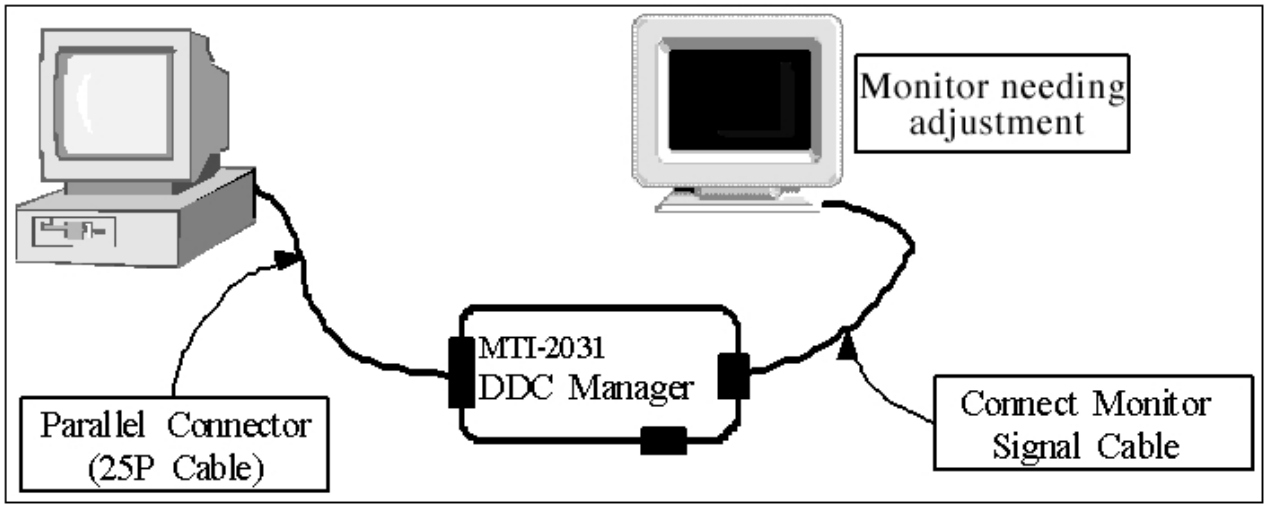


Figure 1.

4-4 OSD Adjustment When Replacing Panel

1. Adjust brightness and contrast to 0. Then, press the ↵ (Enter/Source) key for 5 second.
   Service function OSD will appear on screen.
2. Press the + key to place the cursor on the panel. Press the menu key for 5 seconds.

4-5 OSD Adjustment When Replacing Lamp Only

1. Adjust brightness and contrast to 0. Then, press the exit key for 5 seconds.
   Service function OSD will appear on the screen.
2. Press the + key. Select upper lamp and press the menu key for 5 seconds.
   Then, select lower lamp and press the menu key for 5 seconds.

✵ ***Note :*** *Please be sure to read the following instructions for details on service function.*

4-6 Service Function Spec.

4-6-1 How to Display Service Function OSD

1. The value for brightness and contrast should be changed to zero.
2. Within 5 seconds, press the ↵(Enter/Source) key.
3. Service function OSD will be displayed.

※ If you want to disable the service function OSD, you will have to power off.

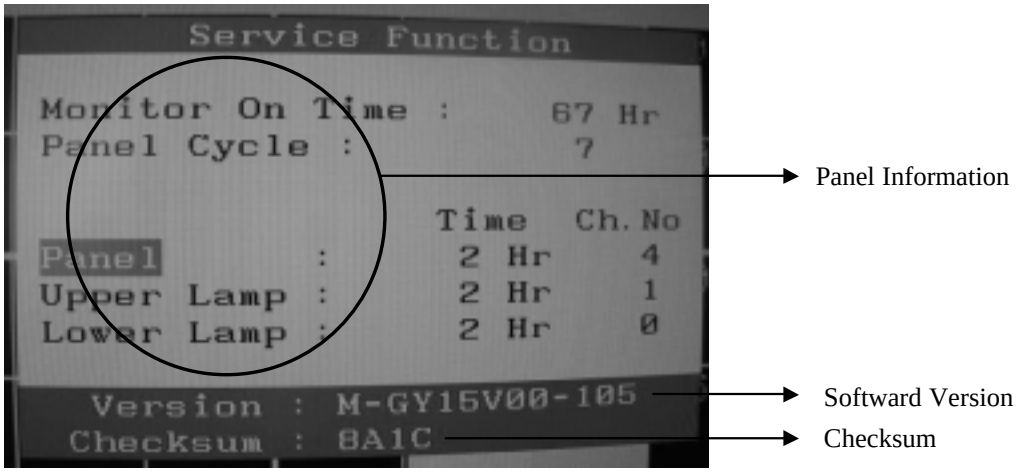


Figure 2. The example of service function OSD

The service function OSD is based on a grid of 29 columns x 12 rows.
The service function OSD consists of panel information, software version and MICOM checksum.

4-6-2 How to Control Service Function OSD

1. With the panel selected on OSD, whenever you press the right key, the base color will change to blue from “Panel” to “Upper Lamp”, “Lower Lamp”.

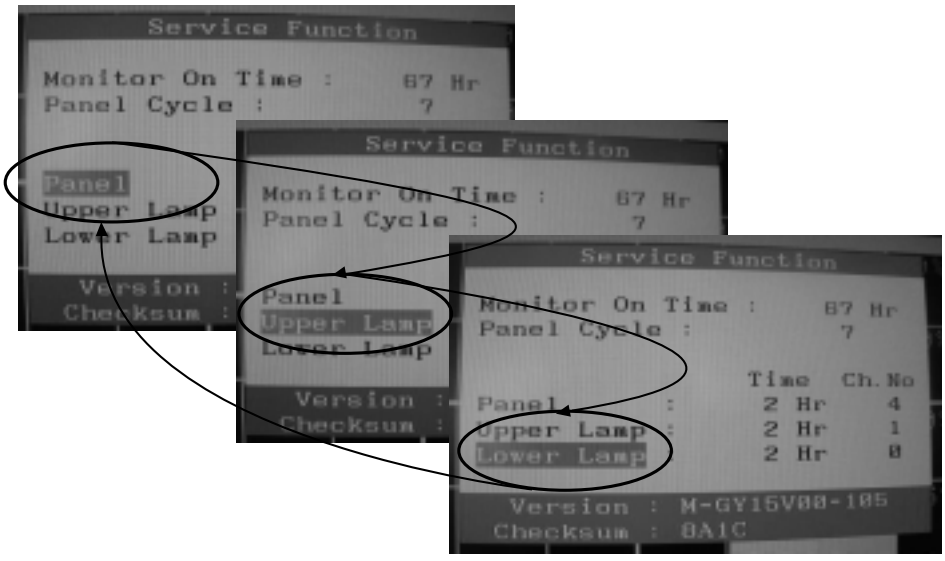


Figure 3.

4-6-3 How to Control Service Function OSD

•After change the panel or lamp, you must reset service function OSD.

•The case of panel change

After changeing the panel, press the menu key within 5 seconds,.
Then, panel Ch. No increases one step and the panel time information is reset to zero.
Simultaneously, other information is reset to zero (Upper/Lower lamp, Panel cycle).

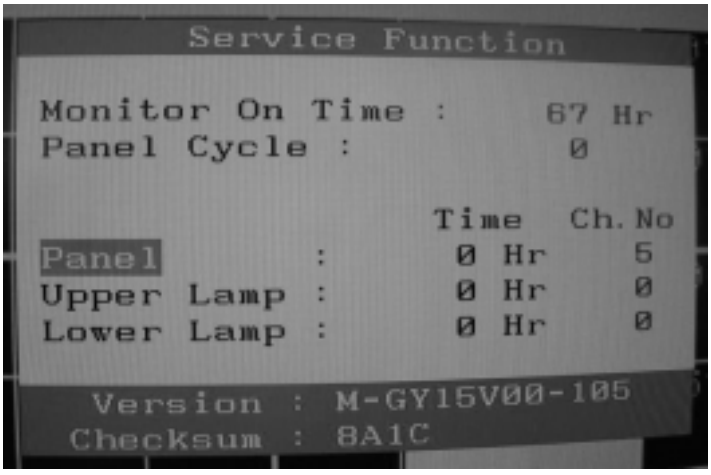

Service Function
Monitor On Time : 67 Hr
Panel Cycle : 0
Time Ch. No
Panel : 0 Hr 5
Upper Lamp : 0 Hr 0
Lower Lamp : 0 Hr 0
Version : M-GY15V00-105
Checksum : 8A1C

Figure 4.

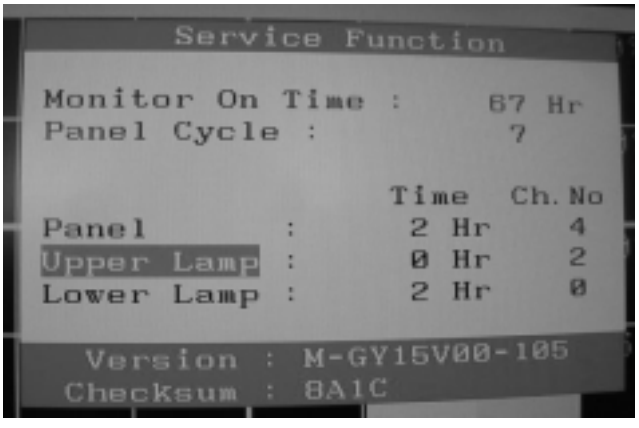
4-6-4 How to Control Service Function OSD

•In the case of Upper Lamp or Lower Lamp change

After changeing the Upper Lamp or Lower Lamp,

1. Select the Upper Lamp or Lower Lamp
2. Press the Menu key within an 5 seconds.

Then, Ch. No and time will be reset to zero (selected item only).


Service Function
Monitor On Time : 67 Hr
Panel Cycle : 7
Time Ch. No
Panel : 2 Hr 4
Upper Lamp : 0 Hr 2
Lower Lamp : 2 Hr 0
Version : M-GY15V00-105
Checksum : 8A1C

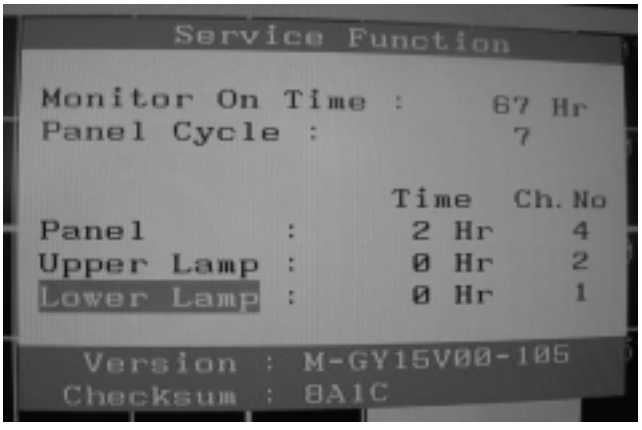

Service Function
Monitor On Time : 67 Hr
Panel Cycle : 7
Time Ch. No
Panel : 2 Hr 4
Upper Lamp : 0 Hr 2
Lower Lamp : 0 Hr 1
Version : M-GY15V00-105
Checksum : 8A1C

Figure 5, 6.

Memo

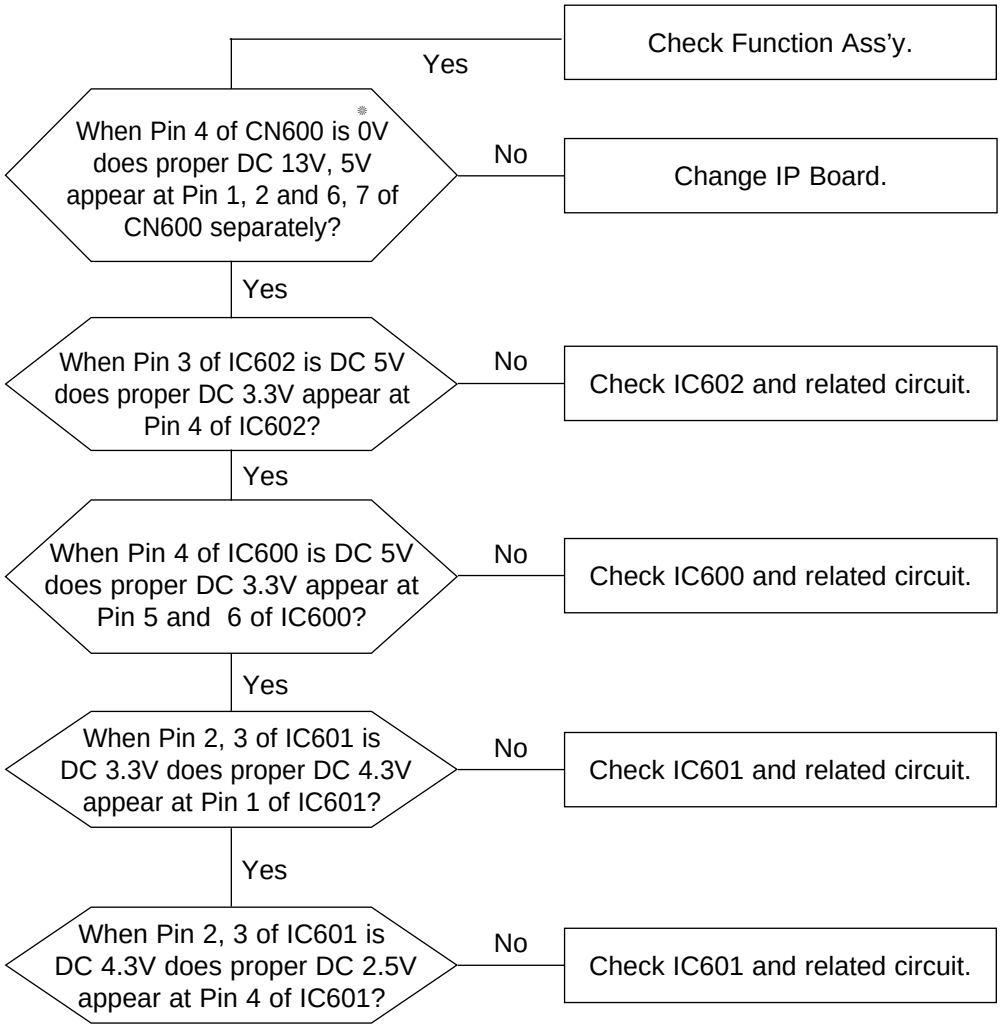
5 Troubleshooting

Notes: 1. Before troubleshooting, setup the PC's display as below.
- Resolution: 1024 x 768
- H-frequency: 61 kHz
- V-frequency: 75 Hz

2. If no picture appears, make sure the power cord is correctly connected.
3. Check the following circuits.
- No raster appears: Function PBA, Main PBA, I/D PBA
- 5V develop but no screen: Main PBA
- 5V does not develop: I/D PBA

4. If you push and hold the "↵(Enter, Source)" button for more than 5 seconds, the monitor automatically returns to the factory preset.

5-1-1 No Power (MJ15A*/MJ15B*)


When Pin 4 of CN600 is 0V* does proper DC 13V, 5V appear at Pin 1, 2 and 6, 7 of CN600 separately?
No
Change IP Board.
Yes
When Pin 3 of IC602 is DC 5V does proper DC 3.3V appear at Pin 4 of IC602?
No
Check IC602 and related circuit.
Yes
When Pin 4 of IC600 is DC 5V does proper DC 3.3V appear at Pin 5 and 6 of IC600?
No
Check IC600 and related circuit.
Yes
When Pin 2, 3 of IC601 is DC 3.3V does proper DC 4.3V appear at Pin 1 of IC601?
No
Check IC601 and related circuit.
Yes
When Pin 2, 3 of IC601 is DC 4.3V does proper DC 2.5V appear at Pin 4 of IC601?
No
Check IC601 and related circuit.
Yes
Check Function Ass'y.

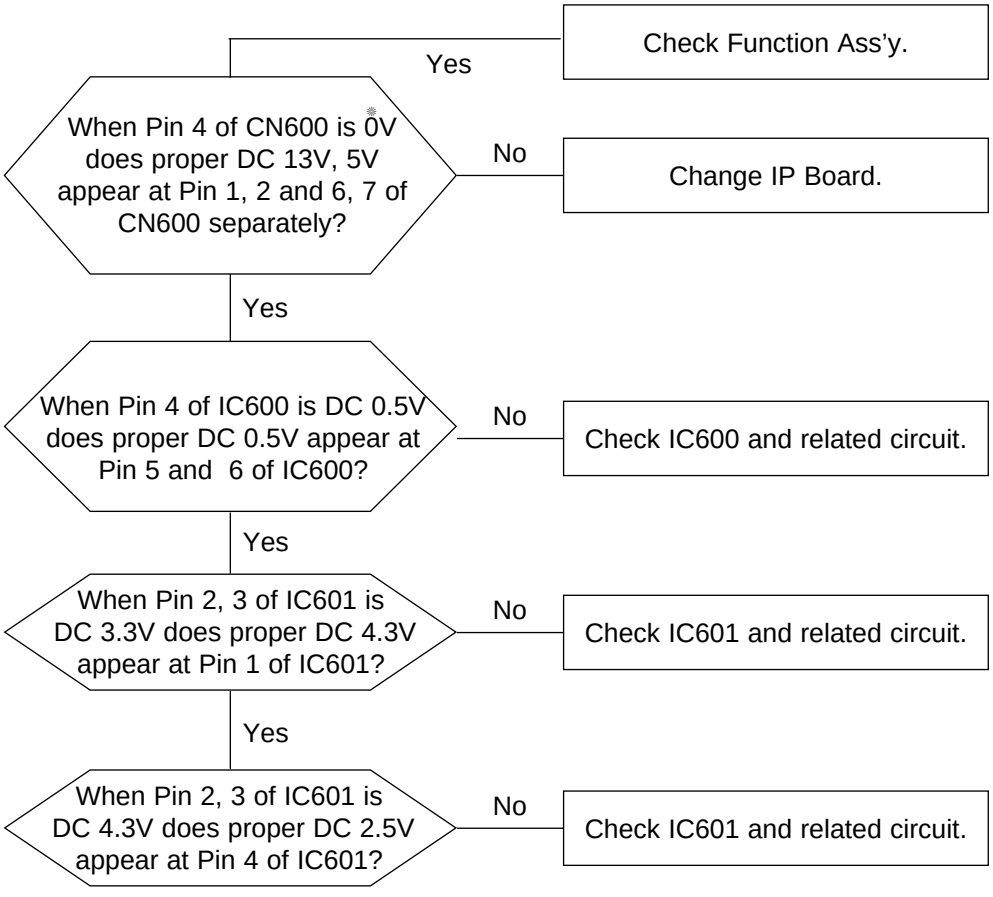
* 0V means power on state.
When the monitor work well except DPMS and power switch off,
0V should be applied to number 4 of CN600.

Notes: 1. Before troubleshooting, setup the PC's display as below.
- Resolution: 1280 x 1024
- H-frequency: 64 kHz
- V-frequency: 60 Hz

2. If no picture appears, make sure the power cord is correctly connected.
3. Check the following circuits.
- No raster appears: Function PBA, Main PBA, I/P PBA
- 5V develop but no screen: Main PBA
- 5V does not develop: I/P PBA

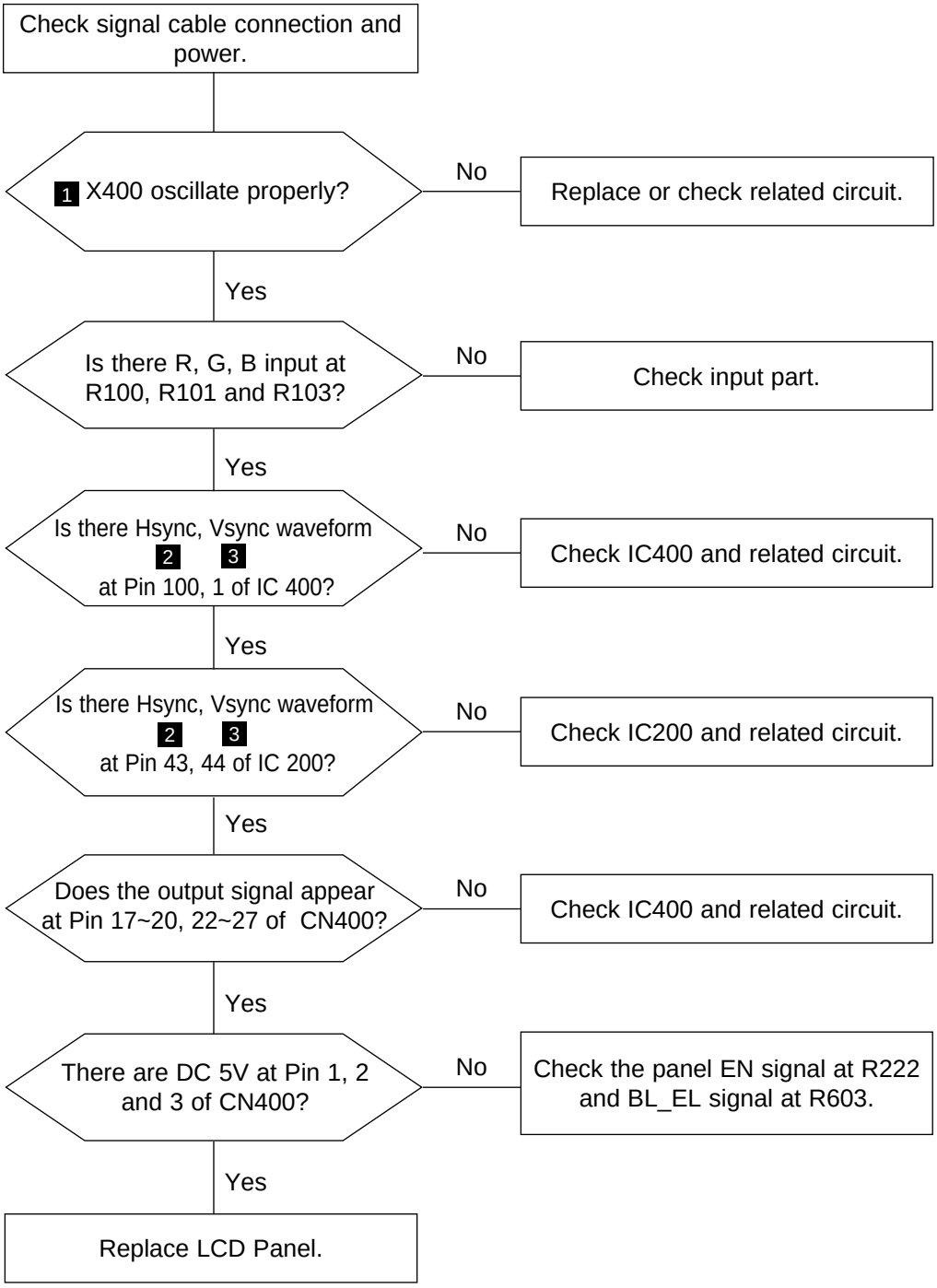
4. If you push and hold the "↵(Enter/Source)" button for more than 5 seconds, the monitor automatically returns to the factory preset.

5-1-2 No Power (MJ17A*/MJ19A*/MJ17B*/MJ19B*/MJ19E*)


When Pin 4 of CN600 is 0V* does proper DC 13V, 5V appear at Pin 1, 2 and 6, 7 of CN600 separately?
Yes
No
Check Function Ass'y.
Change IP Board.
When Pin 4 of IC600 is DC 0.5V does proper DC 0.5V appear at Pin 5 and 6 of IC600?
Yes
No
Check IC600 and related circuit.
When Pin 2, 3 of IC601 is DC 3.3V does proper DC 4.3V appear at Pin 1 of IC601?
Yes
No
Check IC601 and related circuit.
When Pin 2, 3 of IC601 is DC 4.3V does proper DC 2.5V appear at Pin 4 of IC601?
Yes
No
Check IC601 and related circuit.

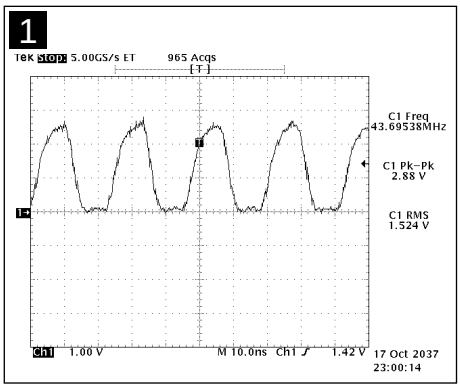
* 0V means power on state.
When the monitor work well except DPMS and power switch off,
0V should be applied to number 4 of CN600.

5-2-1 No Video (ANALOG)


Check signal cable connection and power.
1 X400 oscillate properly?
No
Replace or check related circuit.
Yes
Is there R, G, B input at R100, R101 and R103?
No
Check input part.
Yes
Is there Hsync, Vsync waveform 2 3 at Pin 100, 1 of IC 400?
No
Check IC400 and related circuit.
Yes
Is there Hsync, Vsync waveform 2 3 at Pin 43, 44 of IC 200?
No
Check IC200 and related circuit.
Yes
Does the output signal appear at Pin 17~20, 22~27 of CN400?
No
Check IC400 and related circuit.
Yes
There are DC 5V at Pin 1, 2 and 3 of CN400?
No
Check the panel EN signal at R222 and BL_EL signal at R603.
Yes
Replace LCD Panel.

WAVEFORMS

1



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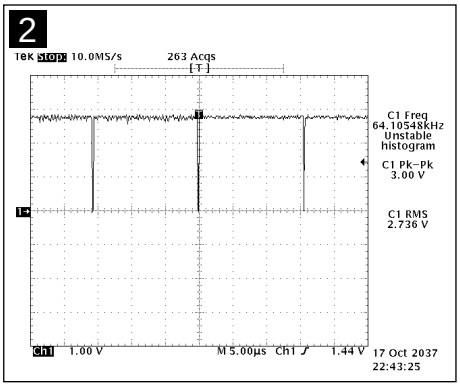

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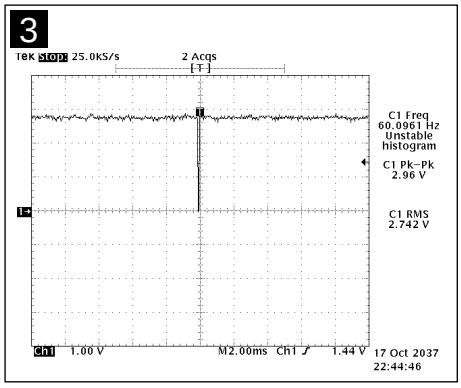
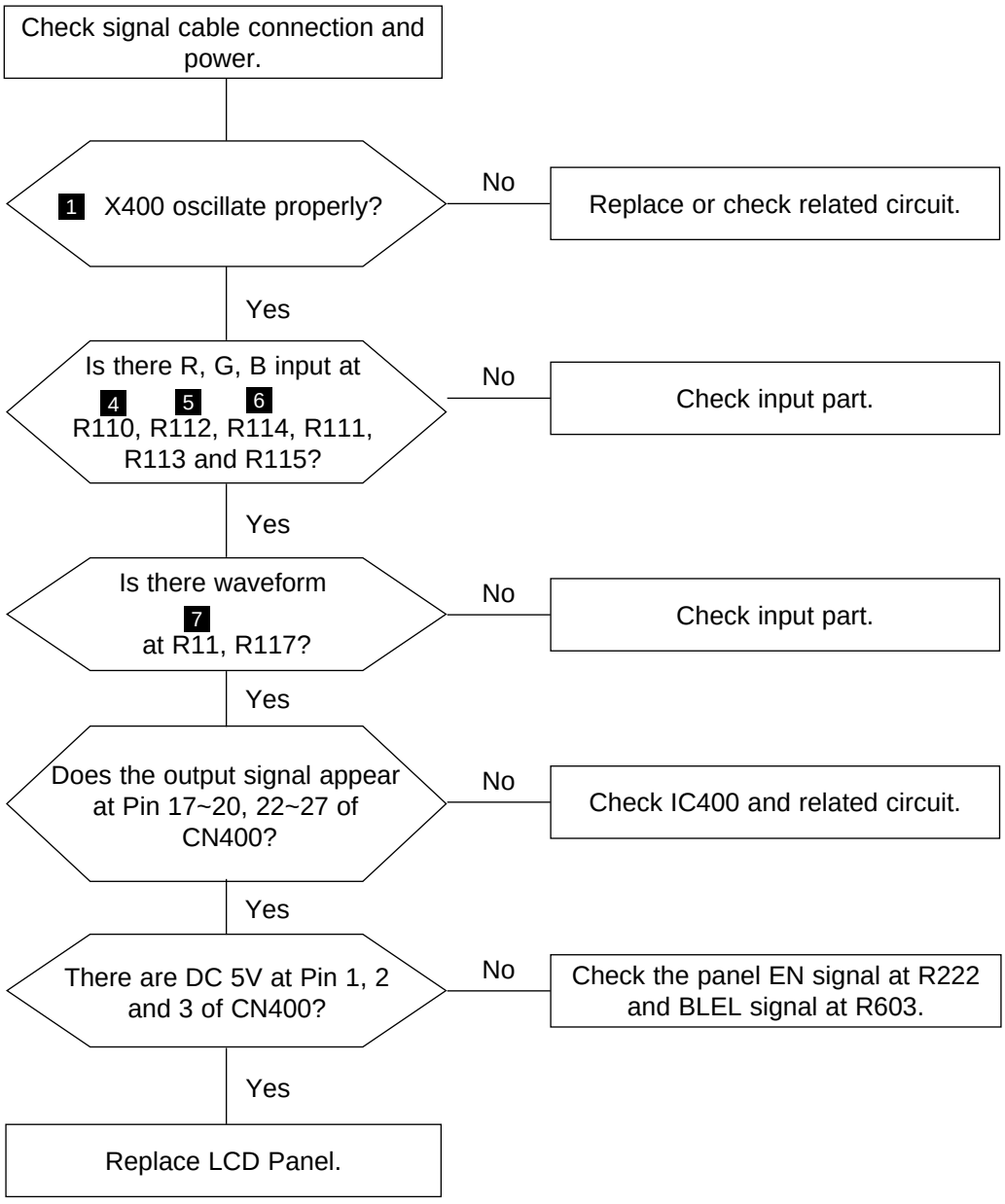
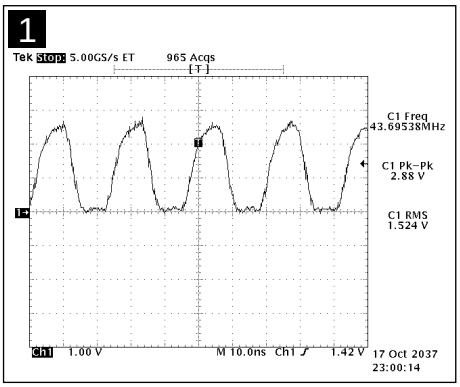


5-2-2 No Video (DIGITAL)

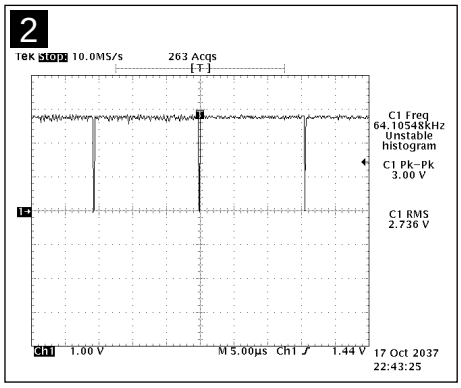

Check signal cable connection and power.
1 X400 oscillate properly?
No
Replace or check related circuit.
Yes
Is there R, G, B input at 4 5 6 R110, R112, R114, R111, R113 and R115?
No
Check input part.
Yes
Is there waveform 7 at R11, R117?
No
Check input part.
Yes
Does the output signal appear at Pin 17~20, 22~27 of CN400?
No
Check IC400 and related circuit.
Yes
There are DC 5V at Pin 1, 2 and 3 of CN400?
No
Check the panel EN signal at R222 and BLEL signal at R603.
Yes
Replace LCD Panel.

WAVEFORMS

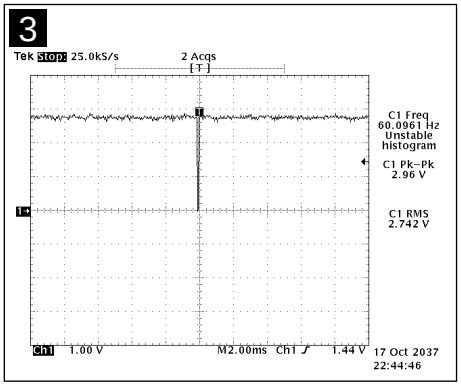
1



2



3



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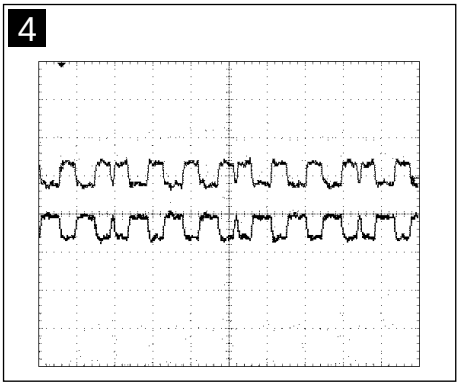

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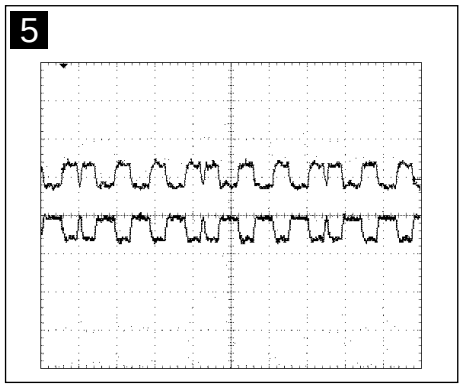

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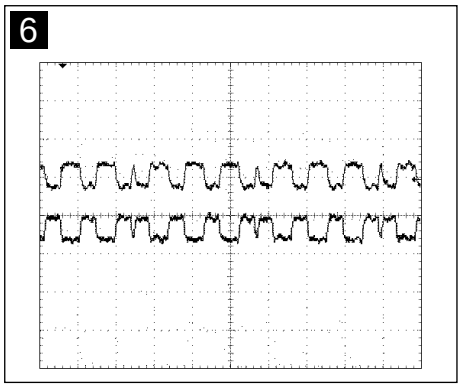

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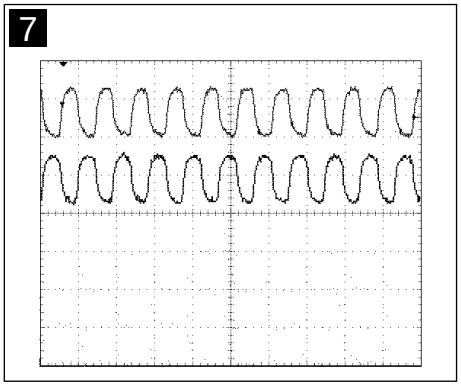
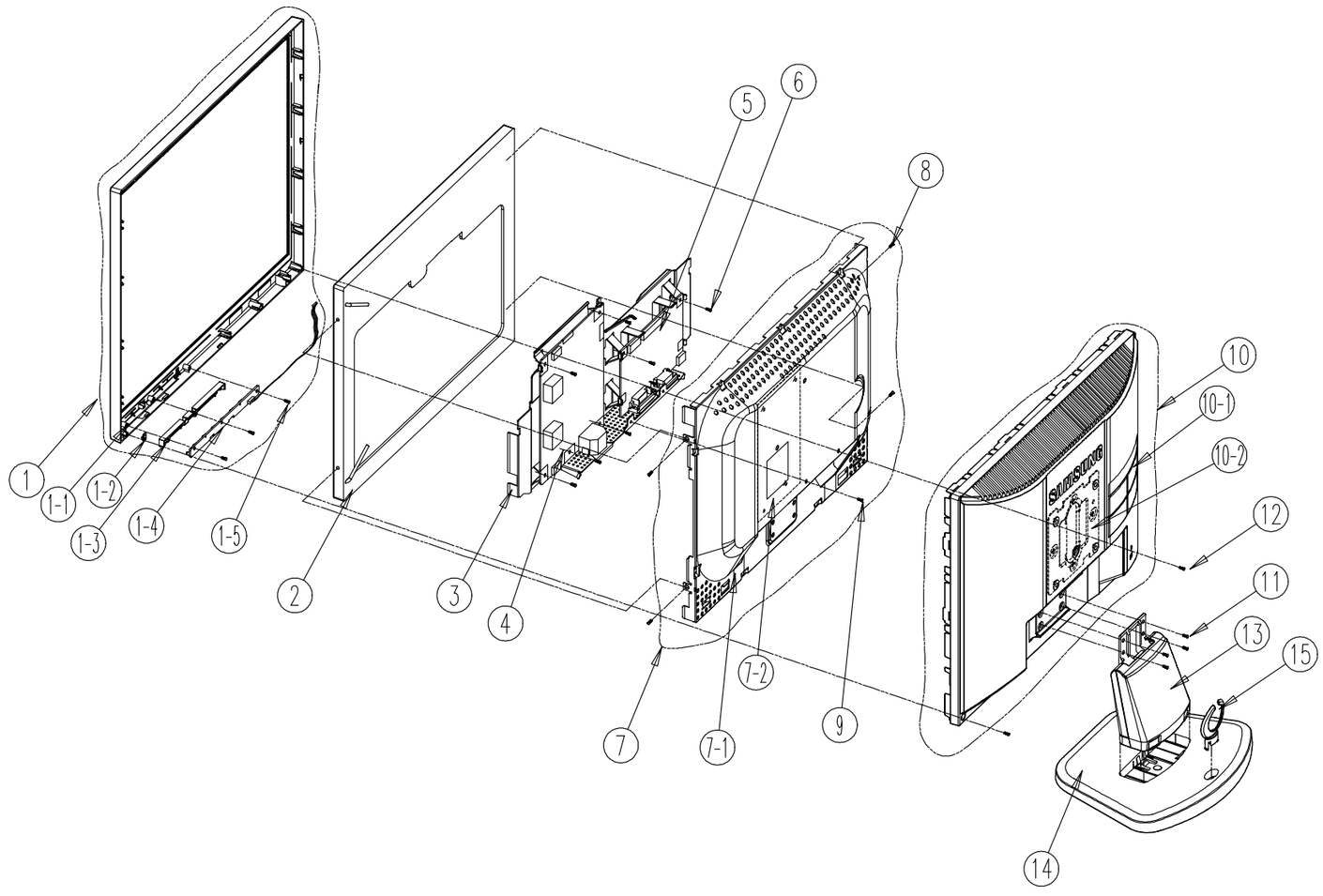


6 Exploded View and Parts List

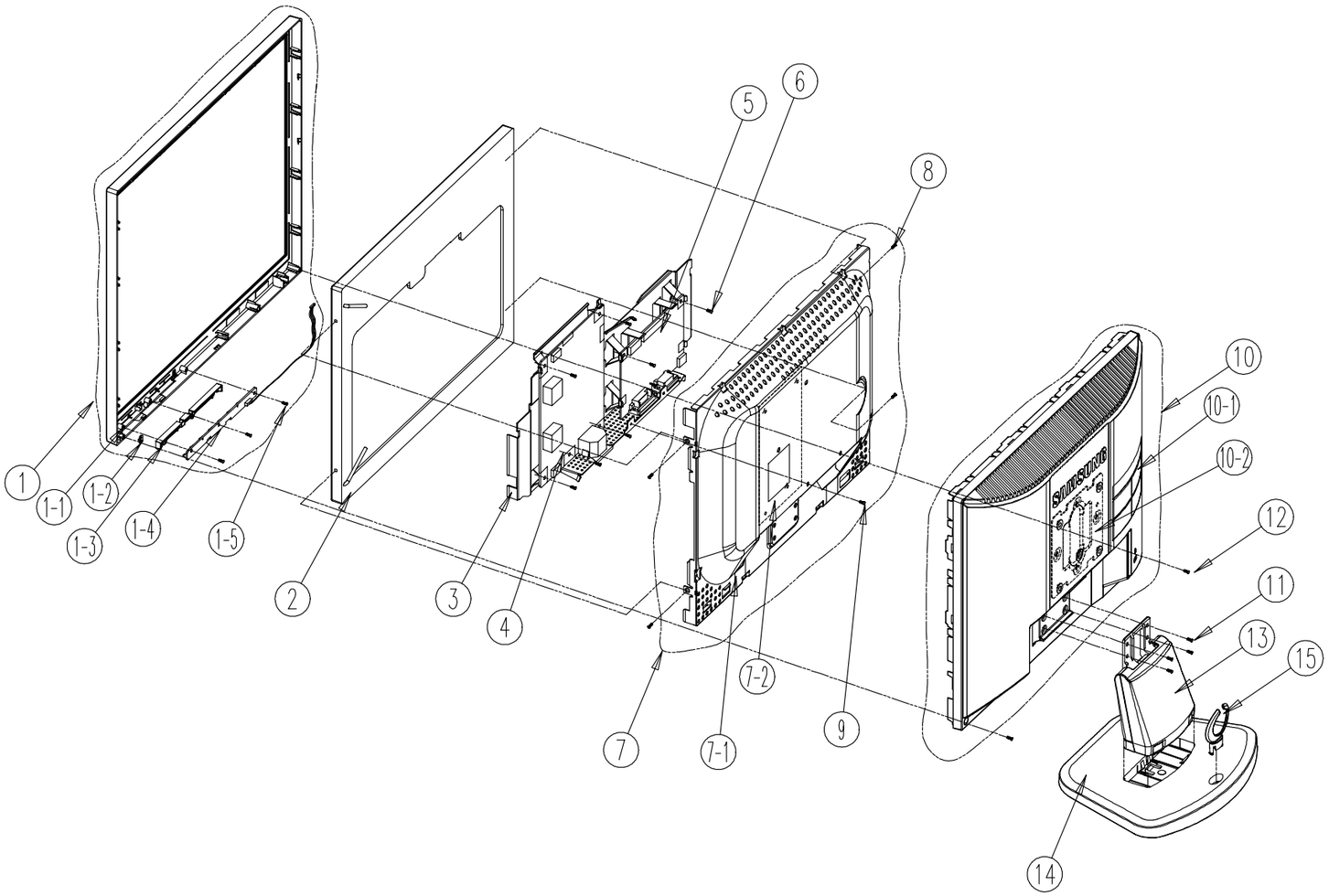
✵ You can search for updated part codes through ITSELF web site.
URL : http://itself. sec. samsung.co.kr

6-1 MJ15AS*



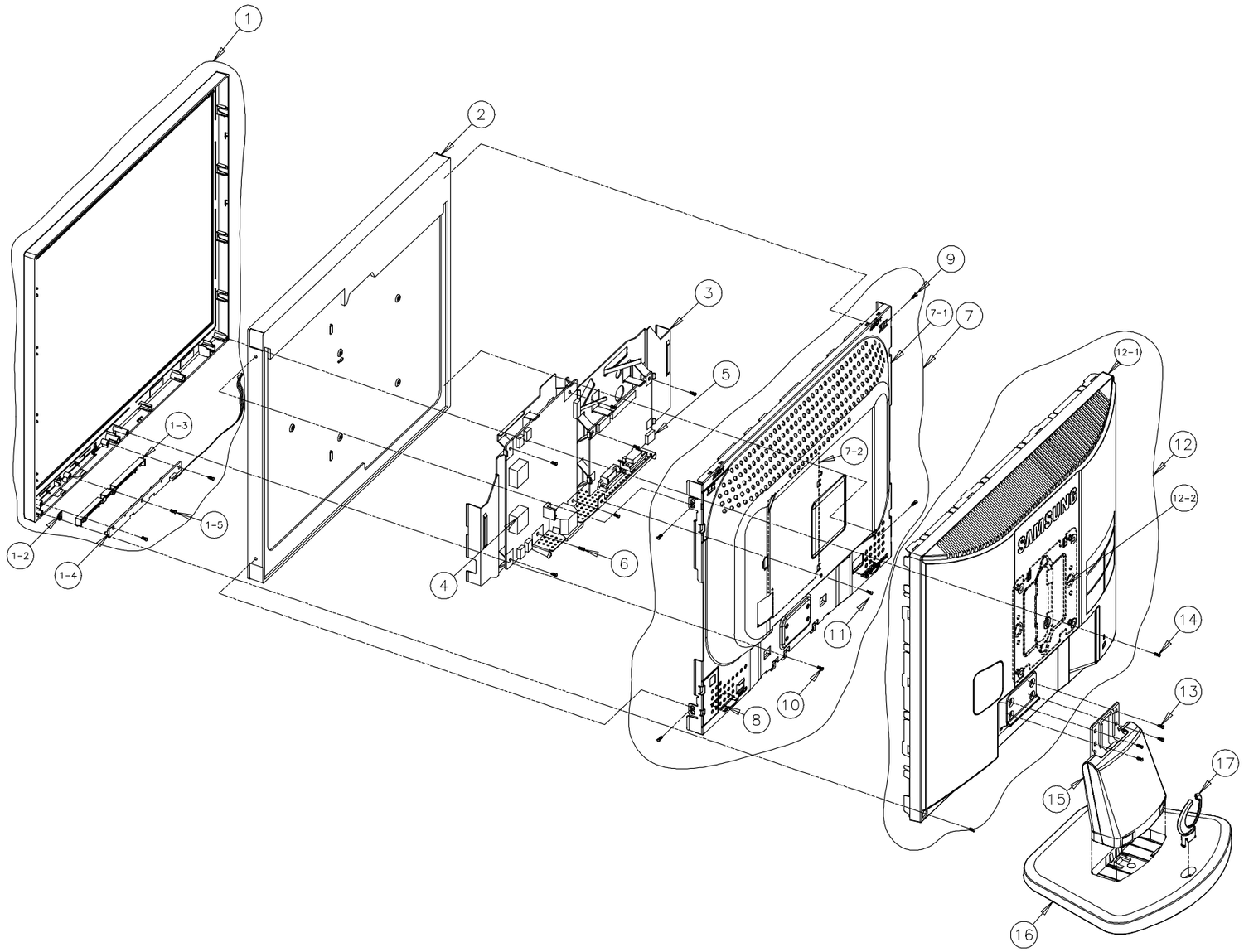
No.	DESCRIPTION	CODE No.	SPECIFICATION	Q'ty	REMARK
1	ASSY,COVER-FRONT	BN96-01052B	ABS HB,GR70,SILVER	1	SA
1-1	COVER-FRONT	BN63-01206A	ABS HB GR70 SILVER	1	SNA
1-2	LENS-LED	BN67-00120A	ACRYL,CLEAR	1	SNA
1-3	KNOB-FUNCTION	BN64-00257A	ABS+PC,GR70 SILVER	1	SNA
1-4	FUNCTION-PCB	BN96-01111A	-	1	SNA
1-5	SCREW TAPTITE	6003-000282	BH,+,B,M3,L8,ZPC(BLK),SWRC	3	SA
2	PANEL	BN07-00164B	LTM150X0-L01	1	SA
3	BRKT-PCB	BN61-01068A	SECC T1.0, ANALOG TYPE	1	SNA
4	IP-BOARD	BN44-00107B	-	1	SA
5	MAIN-BOARD	BN94-00527D	-	1	SA
6	SCREW TAPTITE	6003-000117	BH,+,B,M3,L6,ZPC(YEL),SWRC	7	SA
7	ASSY,SHIELD-COVER	BN96-01058A	-	1	SNA
7-1	SHIELD-COVER	BN63-01192A	SECC T1.0	1	SNA
7-2	COVER-INSULATOR	BN63-01213A	PC SHEET V2,T0.35	1	SNA
8	SCREW-MACHINE	6001-000125	BH,+,M3,L4,ZPC(YEL),SM20C,	4	SA
9	SCREW-TAPTITE	6003-000117	BH,+,B,M3,L6,ZPC(YEL),SWRC	1	SA
10	ASSY,COVER-REAR	BN96-01053B	ABS HB,BK07	1	SA
10-1	COVER-REAR	BN63-01207B	ABS HB,BK07	1	SNA
10-2	BRKT-VESA	BN61-00379A	GOYA 153S,SECC,T2.0	1	SNA
11	SCREW-TAPTITE	6003-000337	BH,+,S,M4,L10,ZPC(BLK),SWRCH18	4	SA
12	SCREW-TAPTITE	6003-001086	BH,+,B,M3,L12,ZPC(BLK),SWRCH18	2	SA
13	ASSY,STAND	BN96-01063A	ABS HB,BK07	1	SA
14	STAND-BASE	BN61-00824A	ABS HB,BK07	1	SNA
15	STAND-HOLDER	BN61-00821A	ABS HB,BK07	1	SNA

6-2 MJ15BS*



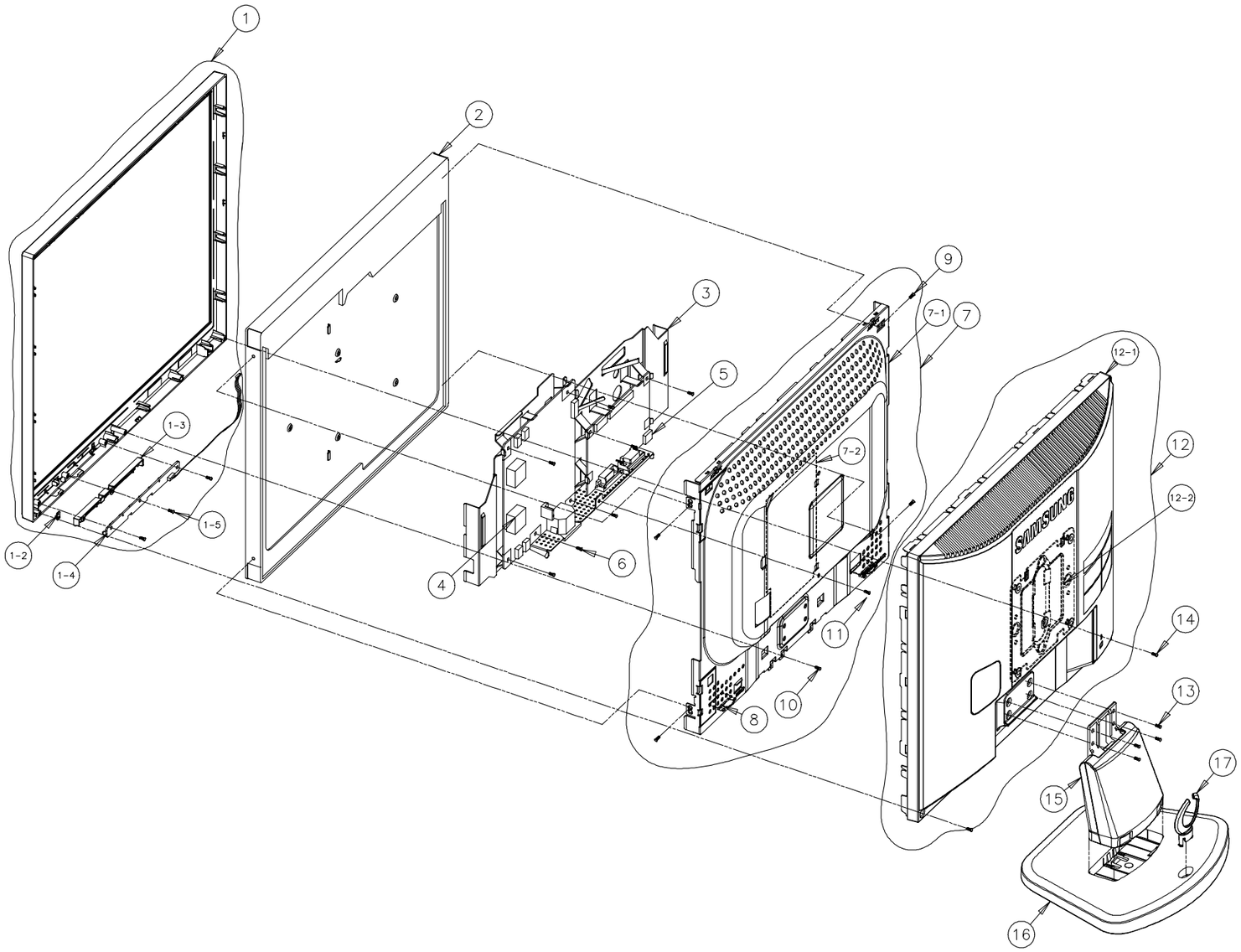
No.	DESCRIPTION	CODE No.	SPECIFICATION	Q'ty	REMARK
1	ASSY,COVER-FRONT	BN96-01052A	ABS HB,GR70,SILVER	1	SA
1-1	COVER-FRONT	BN63-01206A	ABS HB GR70 SILVER	1	SNA
1-2	LENS-LED	BN67-00120A	ACRYL,CLEAR	1	SNA
1-3	KNOB-FUNCTION	BN64-00257A	ABS+PC,GR70 SILVER	1	SNA
1-4	FUNCTION-PCB	BN96-01111A	-	1	SNA
1-5	SCREW TAPTITE	6003-000282	BH,+,B,M3,L8,ZPC(BLK),SWRC	3	SA
2	PANEL	BN07-00164B	LTM150X0-L01	1	SA
3	BRKT-PCB	BN61-01068B	SECC T1.0, DUAL TYPE	1	SNA
4	IP-BOARD	BN44-00107B	-	1	SA
5	MAIN-BOARD	BN94-00527D	-	1	SA
6	SCREW TAPTITE	6003-000117	BH,+,B,M3,L6,ZPC(YEL),SWRC	7	SA
7	ASSY,SHIELD-COVER	BN96-01058A	-	1	SNA
7-1	SHIELD-COVER	BN63-01192A	SECC T1.0	1	SNA
7-2	COVER-INSULATOR	BN63-01213A	PC SHEET V2,T0.35	1	SNA
8	SCREW-MACHINE	6001-000125	BH,+,M3,L4,ZPC(YEL),SM20C,	4	SA
9	SCREW-TAPTITE	6003-000117	BH,+,B,M3,L6,ZPC(YEL),SWRC	1	SA
10	ASSY,COVER-REAR	BN96-01053A	ABS HB,BK07	1	SA
10-1	COVER-REAR	BN63-01207A	ABS HB,BK07	1	SNA
10-2	BRKT-VESA	BN61-00379A	GOYA 153S,SECC,T2.0	1	SNA
11	SCREW-TAPTITE	6003-000337	BH,+,S,M4,L10,ZPC(BLK),SWRCH18	4	SA
12	SCREW-TAPTITE	6003-001086	BH,+,B,M3,L12,ZPC(BLK),SWRCH18	2	SA
13	ASSY,STAND	BN96-01063A	ABS HB,BK07	1	SA
14	STAND-BASE	BN61-00824A	ABS HB,BK07	1	SNA
15	STAND-HOLDER	BN61-00821A	ABS HB,BK07	1	SNA

6-3 MJ17AS*



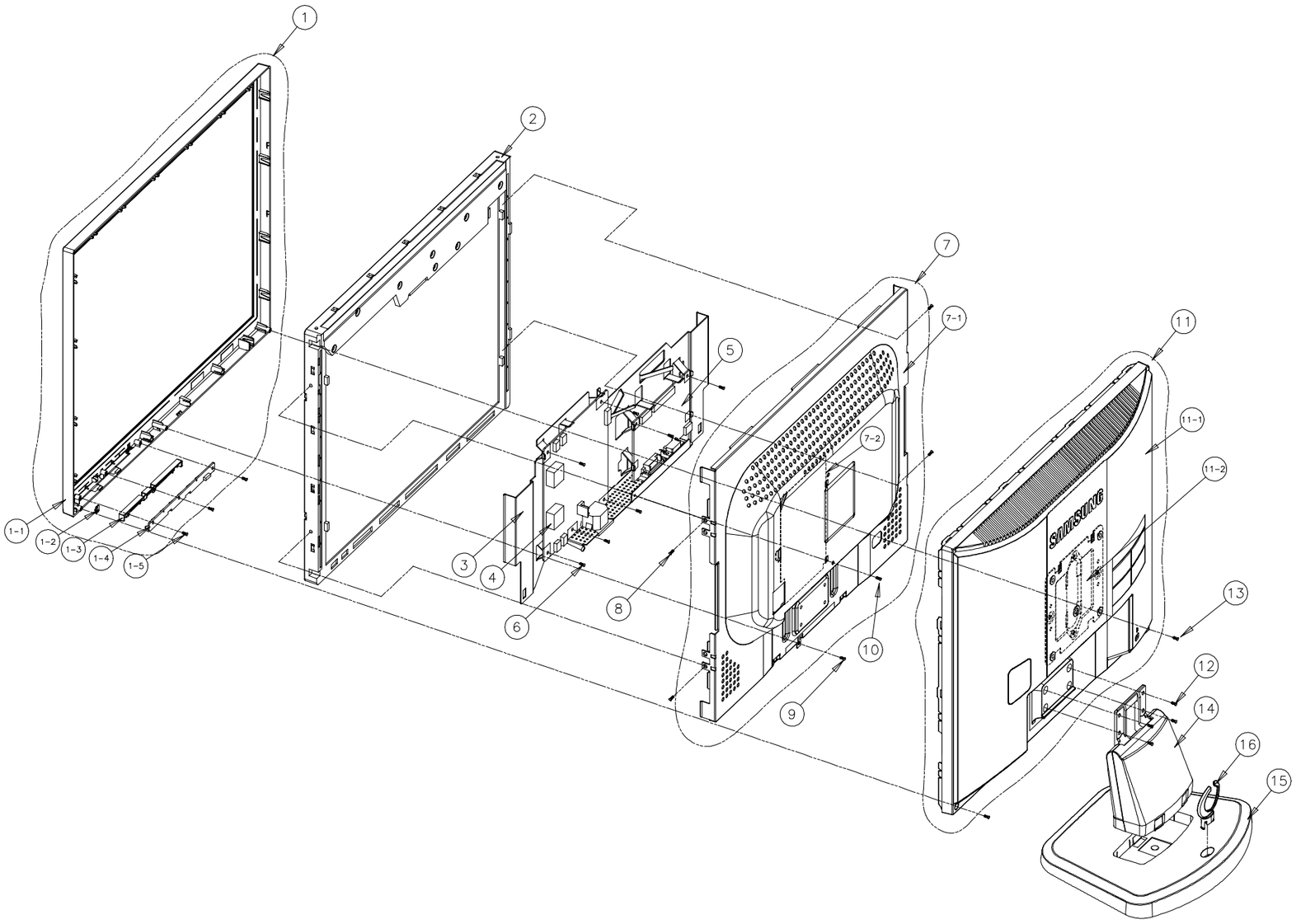
No.	DESCRIPTION	CODE No.	SPECIFICATION	Q'ty	REMARK
1	ASSY,COVER-FRONT	BN96-01056B	ABS HB,SILVER	1	SA
1-1	COVER-FRONT	BN63-01208A	ABS HB GR70 SILVER	1	SNA
1-2	LENS-LED	BN67-00120A	ACRYL,CLEAR	1	SNA
1-3	KNOB-FUNCTION	BN64-00257A	ABS+PC,GR70 SILVER	1	SNA
1-4	FUNCTION-PCB	BN96-01111A	-	1	SNA
1-5	SCREW TAPTITE	6003-000282	BH,+,B,M3,L8,ZPC(BLK),SWRC	3	SA
2	PANEL	BN07-00160B	LDVITREH-L11,820K,EH1,388.5x296.5x17.5,16.2K,40,0.264x0.264,0°50,5H,TM	1	SA
3	BRKT-PCB	BN61-01102A	SECC T1.0	1	SNA
4	IP-BOARD	BN44-00113A	-	1	SA
5	MAIN-BOARD	BN94-00527C	-	1	SA
6	SCREW TAPTITE	6003-000117	BH,+,B,M3,L6,ZPC(YEL),SWRC	7	SA
7	ASSY,SHIELD-COVER	BN96-01059A	-	1	SNA
7-1	SHIELD-COVER	BN63-01211A	SECC T1.0	1	SNA
7-2	COVER-INSULATOR	BN63-01313A	PC SHEET V2,T0.35,106*144	1	SNA
8	PANEL-SPACER	BN64-00258A	ABS,HB,BK07	2	SNA
9	SCREW-MACHINE	6001-000559	FH,+,M3,L6,ZPC(YEL)	4	SA
10	SCREW-TAPTITE	6003-000117	BH,+,B,M3,L6,ZPC(YEL),SWRC	1	SA
11	SCREW-TAPTITE	6003-000276	BH,+,B,M3,L10,ZPC(YEL),SWRC	1	SA
12	ASSY,COVER-REAR	BN96-01054B	ABS HB,BK07	1	SA
12-1	COVER-REAR	BN63-01216B	ABS HB,BK07	1	SNA
12-2	BRKT-VESA	BN61-00377A	GY17LS,SECC,T1.0,100*100	1	SNA
13	SCREW-TAPTITE	6003-000337	BH,+,S,M4,L10,ZPC(BLK),SWRCH18	4	SA
14	SCREW-TAPTITE	6003-001086	BH,+,B,M3,L12,ZPC(BLK),SWRCH18	2	SA
15	ASSY,STAND	BN96-01063A	ABS HB,BK07	1	SA
16	STAND-BASE	BN61-00824A	ABS HB,BK07	1	SNA
17	STAND-HOLDER	BN61-00821A	ABS HB,BK07	1	SNA

6-4 MJ17BS*



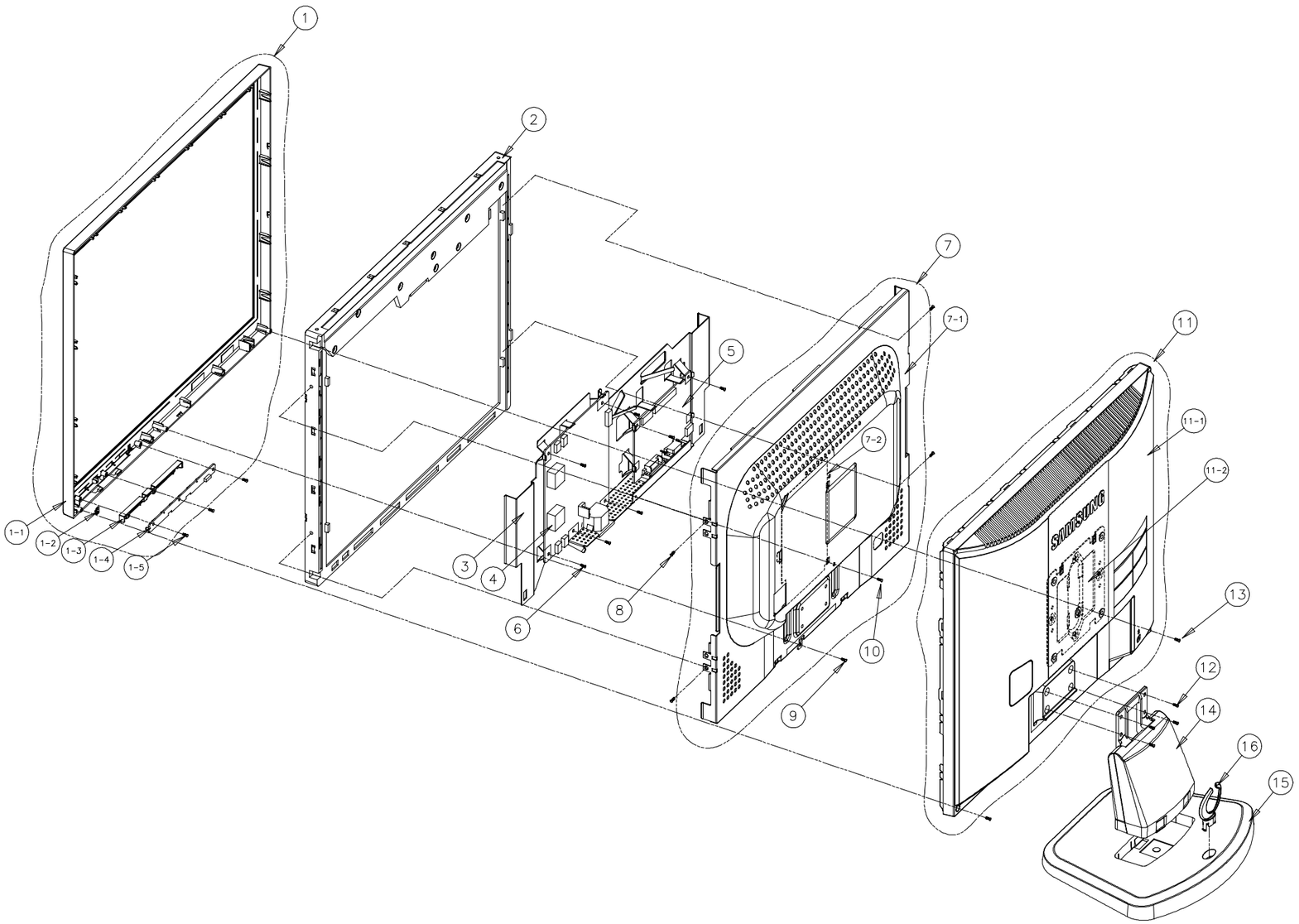
No.	DESCRIPTION	CODE No.	SPECIFICATION	Q'ty	REMARK
1	ASSY,COVER-FRONT	BN96-01056A	ABS HB,SILVER	1	SA
1-1	COVER-FRONT	BN63-01208A	ABS HB GR70 SILVER	1	SNA
1-2	LENS-LED	BN67-00120A	ACRYL,CLEAR	1	SNA
1-3	KNOB-FUNCTION	BN64-00257A	ABS+PC,GR70 SILVER	1	SNA
1-4	FUNCTION-PCB	BN96-01111A	-	1	SNA
1-5	SCREW TAPTITE	6003-000282	BH,+,B,M3,L8,ZPC(BLK),SWRC	3	SA
2	PANEL	BN07-00160B	LM170E1-L11,2020|481|1,358.5x296.5x17.5,16.2K,40,0.26Hx0.26H,6*50,5K,TN	1	SA
3	BRKT-PCB	BN61-01102B	SECC T1.0,DUAL TYPE	1	SNA
4	IP-BOARD	BN44-00113A	-	1	SA
5	MAIN-BOARD	BN94-00527C	-	1	SA
6	SCREW TAPTITE	6003-000117	BH,+,B,M3,L6,ZPC(YEL),SWRC	7	SA
7	ASSY,SHIELD-COVER	BN96-01059A	-	1	SNA
7-1	SHIELD-COVER	BN63-01211A	SECC T1.0	1	SNA
7-2	COVER-INSULATOR	BN63-01313A	PC SHEET V2,T0.35,106*144	1	SNA
8	PANEL-SPACER	BN64-00258A	ABS,HB,BK07	2	SNA
9	SCREW-MACHINE	6001-000559	FH,+,M3,L6,ZPC(YEL)	4	SA
10	SCREW-TAPTITE	6003-000117	BH,+,B,M3,L6,ZPC(YEL),SWRC	1	SA
11	SCREW-TAPTITE	6003-000276	BH,+,B,M3,L10,ZPC(YEL),SWRC	1	SA
12	ASSY,COVER-REAR	BN96-01054A	ABS HB,BK07	1	SA
12-1	COVER-REAR	BN63-01216A	ABS HB,BK07	1	SNA
12-2	BRKT-VESA	BN61-00377A	GY17LS,SECC,T1.0,100*100	1	SNA
13	SCREW-TAPTITE	6003-000337	BH,+,S,M4,L10,ZPC(BLK),SWRCH18	4	SA
14	SCREW-TAPTITE	6003-001086	BH,+,B,M3,L12,ZPC(BLK),SWRCH18	2	SA
15	ASSY,STAND	BN96-01063A	ABS HB,BK07	1	SA
16	STAND-BASE	BN61-00824A	ABS HB,BK07	1	SNA
17	STAND-HOLDER	BN61-00821A	ABS HB,BK07	1	SNA

6-5 MJ19AS*



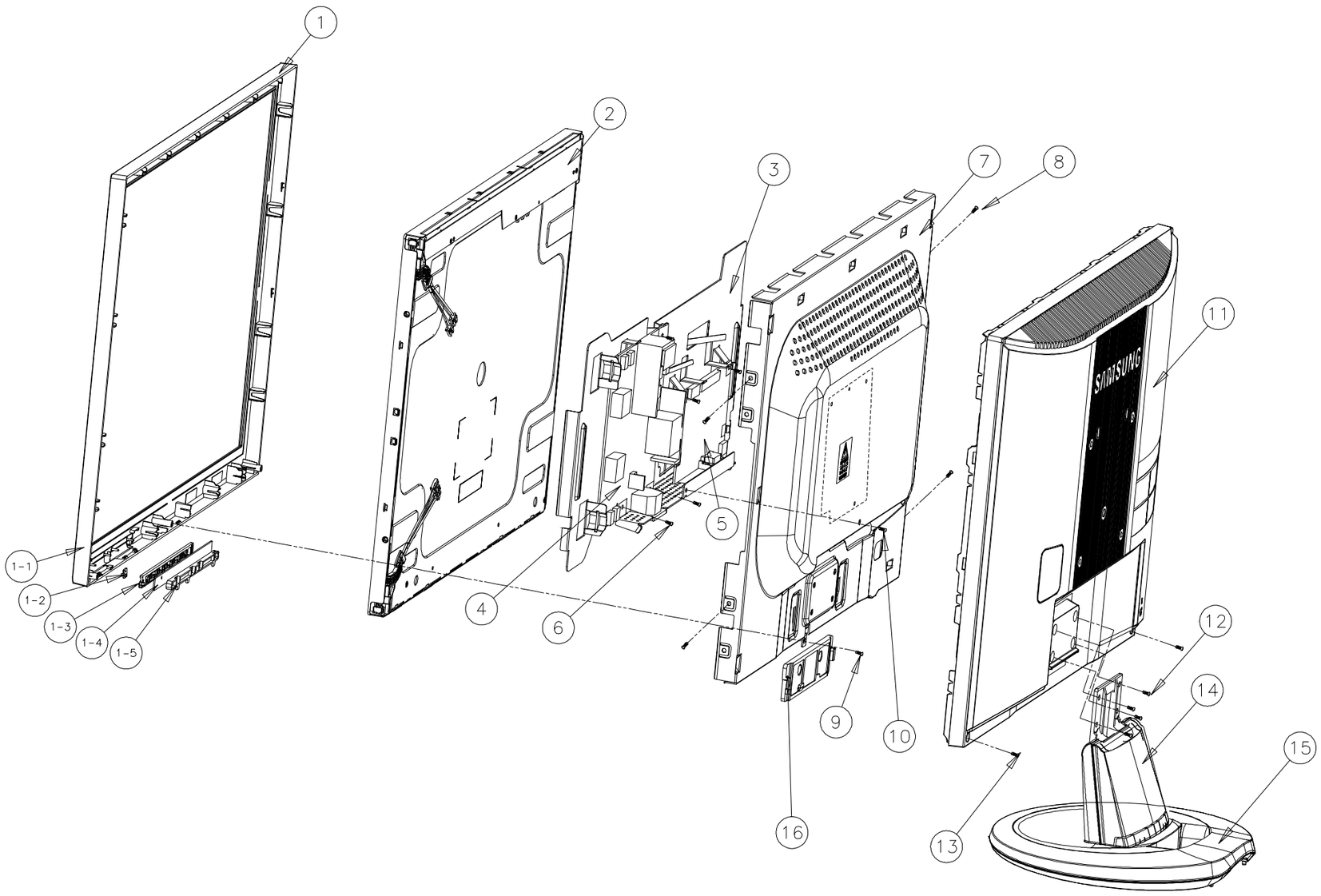
No.	DESCRIPTION	CODE No.	SPECIFICATION	Q'ty	REMARK
1	ASSY,COVER-FRONT	BN96-01057B	ABS HB,SILVER	1	SA
1-1	COVER-FRONT	BN63-01214A	ABS HB GR70 SILVER	1	SNA
1-2	LENS-LED	BN67-00120A	ACRYL,CLEAR	1	SNA
1-3	KNOB-FUNCTION	BN64-00257A	ABS+PC,GR70 SILVER	1	SNA
1-4	FUNCTION-PCB	BN96-01111A	-	1	SNA
1-5	SCREW TAPTITE	6003-000282	BH,+,B,M3,L8,ZPC(BLK),SWRC	3	SA
2	PANEL	BN07-00151B	LCM19SE1-LED,CCCR,GB17,404,3-330x20,16,2M,40,0,2944.2M,4*50,5H,PVA	1	SA
3	BRKT-PCB	BN61-01103A	SECC T1.0	1	SNA
4	IP-BOARD	BN44-00113A	-	1	SA
5	MAIN-BOARD	BN94-00516T	-	1	SA
6	SCREW TAPTITE	6003-000117	BH,+,B,M3,L6,ZPC(YEL),SWRC	7	SA
7	ASSY,SHIELD-COVER	BN96-01060A	-	1	SNA
7-1	SHIELD-COVER	BN63-01217A	SECC T1.0	1	SNA
7-2	COVER-INSULATOR	BN63-01313A	PC SHEET V2,T0.35,106*144	1	SNA
8	SCREW-MACHINE	6001-000131	BH,+,M3,L6,ZPC(YEL),SM20C,	4	SA
9	SCREW-TAPTITE	6003-000276	BH,+,B,M3,L10,ZPC(YEL)	1	SA
10	SCREW-TAPTITE	6003-000117	BH,+,B,M3,L6,ZPC(YEL),SWRC	1	SA
11	ASSY,COVER-REAR	BN96-01055B	ABS HB,BK07	1	SA
11-1	COVER-REAR	BN63-01215B	ABS HB,BK07	1	SNA
11-2	BRKT-VESA	BN61-00377A	GY17LS,SECC,T1.0,100*100	1	SNA
12	SCREW-TAPTITE	6003-000337	BH,+,S,M4,L10,ZPC(BLK),SWRCH18	4	SA
13	SCREW-TAPTITE	6003-001086	BH,+,B,M3,L12,ZPC(BLK),SWRCH18	2	SA
14	ASSY,STAND	BN96-01064A	ABS HB,BK07	1	SA
15	STAND-BASE	BN61-01060A	ABS HB,BK07	1	SNA
16	STAND-HOLDER	BN61-00821A	ABS HB,BK07	1	SNA

6-6 MJ19BS*



No.	DESCRIPTION	CODE No.	SPECIFICATION	Q'ty	REMARK
1	ASSY,COVER-FRONT	BN96-01057A	ABS HB,SILVER	1	SA
1-1	COVER-FRONT	BN63-01214A	ABS HB GR70 SILVER	1	SNA
1-2	LENS-LED	BN67-00120A	ACRYL,CLEAR	1	SNA
1-3	KNOB-FUNCTION	BN64-00257A	ABS+PC,GR70 SILVER	1	SNA
1-4	FUNCTION-PCB	BN96-01111A	-	1	SNA
1-5	SCREW TAPTITE	6003-000282	BH,+,B,M3,L8,ZPC(BLK),SWRC	3	SA
2	PANEL	BN07-00151B	LMPANEL-LED,GOOD,6817,404.2x334x20,16.38,40,0.29mm0.29mm,0°58.5°,PVA	1	SA
3	BRKT-PCB	BN61-01103B	SECC T1.0,DUAL TYPE	1	SNA
4	IP-BOARD	BN44-00113A	-	1	SA
5	MAIN-BOARD	BN94-00516T	-	1	SA
6	SCREW TAPTITE	6003-000117	BH,+,B,M3,L6,ZPC(YEL),SWRC	7	SA
7	ASSY,SHIELD-COVER	BN96-01060A	-	1	SNA
7-1	SHIELD-COVER	BN63-01217A	SECC T1.0	1	SNA
7-2	COVER-INSULATOR	BN63-01313A	PC SHEET V2,T0.35,106*144	1	SNA
8	SCREW-MACHINE	6001-000131	BH,+,M3,L6,ZPC(YEL),SM20C,	4	SA
9	SCREW-TAPTITE	6003-000276	BH,+,B,M3,L10,ZPC(YEL)	1	SA
10	SCREW-TAPTITE	6003-000117	BH,+,B,M3,L6,ZPC(YEL),SWRC	1	SA
11	ASSY,COVER-REAR	BN96-01055A	ABS HB,BK07	1	SA
11-1	COVER-REAR	BN63-01215A	ABS HB,BK07	1	SNA
11-2	BRKT-VESA	BN61-00377A	GY17LS,SECC,T1.0,100*100	1	SNA
12	SCREW-TAPTITE	6003-000337	BH,+,S,M4,L10,ZPC(BLK),SWRCH18	4	SA
13	SCREW-TAPTITE	6003-001086	BH,+,B,M3,L12,ZPC(BLK),SWRCH18	2	SA
14	ASSY,STAND	BN96-01064A	ABS HB,BK07	1	SA
15	STAND-BASE	BN61-01060A	ABS HB,BK07	1	SNA
16	STAND-HOLDER	BN61-00821A	ABS HB,BK07	1	SNA

6-7 MJ19ES*



No.	DESCRIPTION	CODE No.	SPECIFICATION	Q'ty	Remark
1	ASSY,COVER-FRONT	BN96-01669A	ABS HB,SILVER	1	SA
1-1	COVER-FRONT	BN63-01622A	ABS HB GR70 SILVER	1	SNA
1-2	LENS-LED	BN67-00120A	ACRYL,CLEAR	1	SNA
1-3	KNOB-FUNCTION	BN64-00288A	ABS+PC,GR70 SILVER	1	SNA
1-4	FUNCTION-PCB	BN96-01111A		1	SA
1-5	HODER PCB	BN61-01234A	ABS HB BK07	1	SNA
2	PANEL	BN07-00191A	LTM190EX-L01	1	SA
3	BRKT-PCB	BN61-01209A	SECC T1.0	1	SNA
4	IP-BOARD	BN44-00106C		1	SA
5	MAIN-BOARD	BN94-00516T		1	SA
6	SCREW TAPTITE	6003-000117	BH,+,B,M3,L6,ZPC(YEL),SWRC	5	SA
7	ASSY,SHIELD-COVER	BN96-01670A	SECC T1.0	1	SNA
8	SCREW-MACHINE	6001-000131	BH,+,M3,L6,ZPC(YEL),SWZOC,	4	SA
9	SCREW-TAPTITE	6003-000276	BH,+,B,M3,L10,ZPC(YEL)	1	SA
10	SCREW-TAPTITE	6003-000117	BH,+,B,M3,L6,ZPC(YEL),SWRC	1	SA
11	ASSY,COVER-REAR	BN96-01055B	ABS HB,BK07	1	SA
12	SCREW-TAPTITE	6003-000337	BH,+,S,M4,L10,ZPC(BLK),SWRCH18	4	SA
13	SCREW-TAPTITE	6003-001086	BH,+,B,M3,L12,ZPC(BLK),SWRCH18	2	SA
14	ASS'Y STAND BODY	BN96-01064A	ABS HB,BK07	1	SA
15	ASS'Y STAND-BASE	BN61-01462A	ABS HB	1	SA
16	SUPPORT-PANEL-EX	BN61-01468A	ABS HB,BK07	1	SNA

Memo

7 Electrical Parts List

❋ You can search for updated part codes through ITSELF web site.
URL : http://itself.sec.samsung.co.kr/

7-1 MJ15AS* Main PCB Parts

Level	Code No.	Loc. No.	Description	Specification	Remarks
0	MJ15ASKN/EDC				
1	E27-MJ15ASKN/EDC	-	1	SEC,LTM150X0-L01	-
3	BN94-00527D	-	ASSY PCB MAIN	MJ15AS	SA
4	0204-002420	CIS3	SOLVENT	1M-1000,C3H70H,96,-,-	SNA
4	0204-002426	CIS4	FLUX	DF-201TVS,MIX,0.820,FLUX 13%, 14KG,-	SNA
4	3701-001219	CN101	CONNECTOR-DSUB	15P,3R,FEMALE,ANGLE,AUF	SA
4	3711-004712	CN600	CONNECTOR-HEADER	BOX,9P,1R,2mm,STRAIGHT,SN	SA
4	6003-000117	IP/PCB+BRKT/PCB	SCREW-TAPTITE	BH,+,B,M3,L6,ZPC(YEL),SWRCH18A	SNA
4	6003-000117	M/PCB+BRKT/PCB	SCREW-TAPTITE	BH,+,B,M3,L6,ZPC(YEL),SWRCH18A	SNA
4	6502-001019	CIS	CABLE CLAMP	DAMC-10,ID9.9,T7.1,NYLON6.6,GRAY	SNA
4	BN97-00350Q	MICOM	ASSY MICOM	GS15M,GS15A,MJ15B,W/W, KOREA,GM_15_1.3EK	SA
5	0903-001347	IC200	IC-MICROCONTROLLER	NT68F63GL,8Bit,PLCC,44P,653MIL,12MHz,ST,-,PLASTIC,5.000000V,-,-0to+70C,256B,-,-	SNA
4	BN97-00358T	-	ASSY SMD	MJ15AS	SNA
5	0401-001056	D101	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0401-001056	D103	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0401-001056	D105	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0402-001614	D600	DIODE-RECTIFIER	S1G,400V,1.0A,DO-214AC,TP	SA
5	0403-001411	D100	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0403-001411	ZD100	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0403-001411	ZD101	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0403-001411	ZD102	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0403-001411	ZD103	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0403-001411	ZD104	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0403-001411	ZD200	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0406-001061	IC106	DIODE-TVS	MMQA5V6T3,5.32/5.6/5.88V,24W,S	SA
5	0501-002080	Q601	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	SA
5	1003-001674	IC400	IC-LCD CONTROLLER	SE7889,PQFP,100P,23.45x17.45mm,-,-,TR,PLASTIC,0.3-3.6V,0to+70C,-,-,-	SA
5	1103-001023	IC201	IC-EEPROM	24C08,1Kx8,SOP,8P,5x4mm,2.5/5.5V,0to+70C	SA
5	1203-002853	IC602	IC-POSI.FIXED REG.	G960T45R,TO-252,3P,6.35X5.97MM,PLASTIC,3.234/3.336V,-,-40TO+125C,1A,-,TP	SA
5	1203-003209	IC601	IC-MULTI REG.	APL5522,SOP,8P,4.9x3.9mm,PLASTIC,3.3V/2.5V,-,0to+150C,500mA/300mA,-,TP	SA
5	2007-000070	R200	R-CHIP	0ohm,5%,1/10W,TP,1608	SA
5	2007-000070	R227	R-CHIP	0ohm,5%,1/10W,TP,1608	SA
5	2007-000070	R502	R-CHIP	0ohm,5%,1/10W,TP,1608	SA
5	2007-000070	R503	R-CHIP	0ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R223	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R224	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R225	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R226	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R228	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R229	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R230	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R231	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R232	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R234	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R235	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R236	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R237	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R239	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R240	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R242	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R247	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000077	R221	R-CHIP	470ohm,5%,1/10W,TP,1608	SA
5	2007-000077	R243	R-CHIP	470ohm,5%,1/10W,TP,1608	SA
5	2007-000078	R124	R-CHIP	1Kohm,5%,1/10W,TP,1608	SA
5	2007-000078	R241	R-CHIP	1Kohm,5%,1/10W,TP,1608	SA
5	2007-000078	R402	R-CHIP	1Kohm,5%,1/10W,TP,1608	SA
5	2007-000083	R233	R-CHIP	3Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R122	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R204	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R205	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R206	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R207	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R208	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R209	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R210	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R211	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA

Level	Code No.	Loc. No.	Description	Specification	Remarks
5	2007-000084	R212	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R216	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R217	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R219	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R238	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R603	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R123	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R202	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R203	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R214	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R222	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R244	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R401	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R600	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R604	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000102	R602	R-CHIP	100Kohm,5%,1/10W,TP,1608	SA
5	2007-000113	R134	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R135	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R136	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R137	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R138	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R139	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000821	R106	R-CHIP	390ohm,1%,1/10W,TP,1608	SA
5	2007-000821	R403	R-CHIP	390ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R107	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R108	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R109	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R118	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R120	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2203-000189	C224	C-CER,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	SA
5	2203-000236	C116	C-CER,CHIP	0.1NF,5%,50V,C0G,TP,1608	SA
5	2203-000257	C106	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000257	C221	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000257	C222	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000257	C417	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000426	C204	C-CER,CHIP	0.018NF,5%,50V,C0G,TP,1608	SA
5	2203-000426	C416	C-CER,CHIP	0.018NF,5%,50V,C0G,TP,1608	SA
5	2203-000426	C418	C-CER,CHIP	0.018NF,5%,50V,C0G,TP,1608	SA
5	2203-000998	C117	C-CER,CHIP	0.047NF,5%,50V,C0G,TP,1608	SA
5	2203-005005	C100	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C101	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C102	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C103	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C104	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C105	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C110	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C112	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C114	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C200	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C203	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C220	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C400	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C402	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C403	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C404	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C405	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C406	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C407	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C408	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C409	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C410	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C411	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C412	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C413	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C414	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C415	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C419	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C420	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C421	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C423	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C424	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C604	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C605	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C608	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C610	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005065	C206	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005065	C603	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA

Level	Code No.	Loc. No.	Description	Specification	Remarks
5	2203-005065	C606	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005437	C201	C-CER,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	SA
5	2203-005437	C205	C-CER,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	SA
5	2402-000108	C422	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-001042	C401	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	SA
5	2402-001042	C607	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	SA
5	2402-001042	C609	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	SA
5	2402-001042	C612	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	SA
5	2402-001086	C611	C-AL,SMD	100UF,20%,16V,WT,TP,6.6X6.6X5.3	SA
5	2703-001334	BD106	INDUCTOR-SMD	1.5uH,10%,2012	SA
5	2703-001334	R119	INDUCTOR-SMD	1.5uH,10%,2012	SA
5	2703-001334	R121	INDUCTOR-SMD	1.5uH,10%,2012	SA
5	2801-003773	X400	CRYSTAL-SMD	12MHZ,30PPM,28-AAN,20PF,50OHM,TP	SA
5	3301-000314	BD100	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD101	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD102	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD103	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD104	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD105	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD200	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD201	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3711-005470	CN400	CONNECTOR-HEADER	BOX,30P,1R,1.25mm,SMD-A,Sn+Pb,IVR	SA
5	3711-005543	CN200	CONNECTOR-HEADER	BOX,6P,1R,1.25mm,SMD-A,SnPb,IVR	SA
5	BN41-00412D	MP1.3	PCB MAIN	MATISSE/GOYA2,STH,2L,MP1.3,1.6T,118*78.2,4A	SNA

7-2 Others

Level	Code No.	Loc. No.	Description	Specification	Remarks
2	BN91-00785H	-	ASSY SHIELD	MJ15BS/GS15MS/MJ15AS	SNA
3	0201-001563	CIS	ADHESIVE-HM	#3748,YEL,8500CPS,-	SNA
3	6001-000125	SH/COV+PAN	SCREW-MACHINE	BH,+,M3,L4,ZPC(YEL),SM20C,-	SNA
3	6003-000117	SH/COV+BRKT/PCB	SCREW-TAPTITE	BH,+,B,M3,L6,ZPC(YEL),SWRCH18A	SNA
3	6502-001019	CIS	CABLE CLAMP	DAMC-10,ID9.9,T7.1,NYLON6.6,GRAY	SNA
3	BN39-00244A	CIS	CBF SIGNAL	BU15AO(T541A),15P/15P,20276-N,1830MM,UL20276,BLACK,D-SUB/MALE ,DET. TYPE	SA
3	BN39-00507A	CIS	LEAD CONNECTOR	MJ15*S,UL1571#30,20P/30P,90MM,#30,12507HS-20,12507HS-30L,BK,1571#30,SJ03-01-636,	SA
3	BN39-00523B	CIS	LEAD CONNECTOR	GS(MJ)15*,UL1061#28,UL/CSA,6P/5P,250MM,#28,12507HS-06L,12505HS-05,BK,1061#28,HP0	SA
3	BN96-01058A	CIS	ASSY MISC P-SHIELD COVER	MJ15AS/BS,SECC T0.8	SNA
4	BN63-01192A	CIS	SHIELD-COVER	MJ15AS,SECC,T0.8	SNA
4	BN63-01213A	CIS	COVER-INSULATOR	MJ15AS/BS,PET,T0.35	SNA
2	BN92-00329Y	-	ASSY LABEL	MJ/GS,W/W	SNA
3	BN68-00614A	LABEL	LABEL RATING-00	ALL,SS,PE,T0.05,90*45,BLK,POLYESTER,NO SILK	SNA
3	BN68-00657D	LABEL	LABEL RATING-01	ALL,SS,PE,T0.05,90,45,BLK,POLYESTER,EDC	SNA
2	BN92-01071U	-	ASSY P/MATERIAL	MJ15ASKB/XSA,SEAU,AUSTRALIA	SNA
3	6902-000111	P/M	BAG PE	HDPE,T0.015,L800,W650,TRP,28,4,PE MARK	SNA
3	6902-000379	P/M	BAG AIR	HDPE,T0.2,L1800,W1000,TRP,,,PAPER	SNA
3	6902-000604	P/M	BAG WRAPPING	LDPE,T0.02,W500,L10000,TRP,-,-	SNA
3	6902-000609	P/M	BAG ROLL	LDPE,T0.05,W2400,L1000,TRP,-,-	SNA
3	BH68-40364A	P/M	LABEL-SUMMARY	G52,G72,ART,100G,WHT,BLK,W142*	SNA
3	BH69-00457B	P/M	PACKING-PAD BOTTOM	GH15,FOAM,T3.0,930,1000	SNA
3	BH69-40321A	P/M	PACKING-PAD	SW-4,W2155*L140,-,DEC,-,-,-,-,	SNA
3	BH69-40383J	P/M	PACKING-PAD/TOP	CB-SW4,960*760,-,CGE7507	SNA
3	BN68-00129A	P/M	LABEL SHIPPING-00	-,LABEL SHIPPING,ART-PAPER,100G,-,WHT,BLACK,-,-,-	SNA
3	BN69-00140R	P/M	PAD-PALLET COVER	IBM(T85),SW,1000*3500,1166,-,-,-,-,-	SNA
3	BN69-00140W	P/M	PAD PACKING	VR22KO,CB SW-4,700,3800,YEL	SNA
3	BN69-00617J	P/M	PALLET-PACKING	TS15AS,WOODEN,1150,780,120	SNA
3	BN69-00873A	P/M	CUSHION-SET	MJ15AS,EPS	SNA
2	BN92-01146S	-	ASSY ACCESSORY	MJ17ASKN/EDC,EDC	SNA
3	BN96-01384Q	UNIT/ACCESSORY	ASSY ACCESSORY	MJ17ASKS/EDC,EDC,NETHERLANDS,NEW SIMPLE	SA
4	3903-000042	ACCESSORY	CBF-POWER CORD	DT,EU,FP3/YES,IEC320 C13/C14,250/250V,10-16/10A,BLK,1830MM,-,H05VV-F 3X0.75MM^2,	SA
4	6902-000110	ACCESSORY	BAG PE	LDPE,T0.05,L356,W240,TRP,28,2,PE MARK	SNA
4	BH68-70438A	ACCESSORY	CARD-BLOC WARRANTY-09	TFT LCD,BASIC,EU,MOJO,100G,W21	SNA
4	BH68-70448A	ACCESSORY	CARD-01	TFT LCD,SRC,RUSSIA,S/W,120,W210*L120,INSTALL CARD	SNA

Level	Code No.	Loc. No.	Description	Specification	Remarks
4	BN96-01171J	ACCESSORY	ASSY MANUAL P-IB+QSG	MJ17BS 701T,SyncMaster,WW,28 Lang,BN59-420J+BH68-376L	SNA
5	BH68-00376L	QUICK_SETUP	MANUAL-03	LCDQUICK SETUP GUIDE,SYNCMASTER,E/F/S/G/P/I..13LANGS,W/W,MOJO100G,298,420	SNA
5	BN59-00420J	IB	S/W DRIVER-00,IB	MJ17BS 701T,WW,SyncMaster,28 Lang.	SNA
3	BN96-01461C	ACCESSORY	ASSY STAND P-BASE	MATISSE 15/17,ABS HB,IV16,NO SPRAY	SA
4	6003-000142	STAND/BASE	SCREW-TAPTITE	FH,+,B,M3,L8,ZPC(BLK),SWRCH18A,-	SNA
4	6902-000389	STAND/BASE	BAG PE	HDPE/NITRON/HDPE,T0.02/T0.5/T0.02,W350,L300,TRP,8,2	SNA
4	BH68-20366B	STAND/BASE	LABEL-00,STANDE BASE	MJ15,17,ART PAPER,55X10,RED	SNA
4	BN61-01435A	STAND/BASE	HOLDER-STAND	CH,+,M4,L10(4),ZPC(WHT),SWRCH18A	SNA
4	BN63-01489C	STAND/BASE	COVER-STAND	MJ17,ABS,HB,IV16	SNA
4	BN63-01490B	STAND/BASE	COVER-STAND BASE	MJ17,ABS,HB,IV16	SNA
4	BN68-00473W	STAND/BASE	MANUAL INSTALL	Goya2 Stand Guide,SyncMaster,W/W,Mojo100g,A4	SNA
4	BN73-00077A	STAND/BASE	RUBBER-FOOT	MATISSE,BUMPON,®™13.5,T2.0,60~70,BLACK	SNA
2	BN92-01205G	-	ASSY BOX	MJ15ASKN/EDC	SNA
3	BH68-00329C	BOX	LABEL BAR CODE-02	ALL,TCO99,DOMESTIC,MOJO 90G,WHT	SNA
3	BH75-10529A	BOX	UNIT-HANDLE PACKING	LXA410TLMU,PE,-,WHITE,-	SNA
4	BN72-60001A	CIS	LEVER-TOP	LSD210TL,PE-LD,WHITE,TFT_LCD	SNA
4	BN72-60002A	CIS	LEVER-BOTTOM	LSD210TL,PE-LD,WHITE,TFT-LCD	SNA
3	BN69-00760H	BOX	BOX-01	S/M510N(MJ15AS) W/W,CB-SW4,YEL,A-1,W376*D371*H101,NEW SIMPLE	SNA

7-3 MJ17AS* Main PCB Parts

Level	Code No.	Loc. No.	Description	Specification	Remarks
0	MJ17ASKB/EDC				
1	ATH-MJ17ASKB/EDC	-	7	ACER,TN-HPD	-
3	BN94-00624B	-	ASSY PCB MAIN-ATH/Z,PTH/Z	NEW	SNA
4	0204-002420	CIS3	SOLVENT	1M-1000,C3H70H,96,-,-	SNA
4	0204-002426	CIS4	FLUX	DF-201TVS,MIX,0.820,FLUX 13%, 14KG,-	SNA
4	3701-001219	CN101	CONNECTOR-DSUB	15P,3R,FEMALE,ANGLE,AUF	SA
4	3711-004712	CN600	CONNECTOR-HEADER	BOX,9P,1R,2mm,STRAIGHT,SN	SA
4	6003-000117	IP/PCB+BRKT/PCB	SCREW-TAPTITE	BH,+,B,M3,L6,ZPC(YEL),SWRCH18A	SNA
4	6003-000117	M/PCB+BRKT/PCB	SCREW-TAPTITE	BH,+,B,M3,L6,ZPC(YEL),SWRCH18A	SNA
4	BN97-00350S	MICOM	ASSY MICOM	GS17V/C/19V,MJ17/19A,W/W, KOREA,GM_AN_1.3EK	SA
5	0903-001347	IC200	IC-MICROCONTROLLER	NT68F63GL,8Bit,PLCC,44P,653MIL,12MHz,ST,-,PLASTIC,5.000000V,-,-0to+70C,256B,-,-,	SNA
4	BN97-00358S	-	ASSY SMD	MJ17AS	SNA
5	0401-001056	D101	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0401-001056	D103	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0401-001056	D105	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0402-001614	D600	DIODE-RECTIFIER	S1G,400V,1.0A,DO-214AC,TP	SA
5	0403-001411	D100	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0403-001411	ZD100	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0403-001411	ZD101	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0403-001411	ZD102	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0403-001411	ZD103	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0403-001411	ZD104	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0403-001411	ZD200	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0406-001061	IC106	DIODE-TVS	MMQA5V6T3,5.32/5.6/5.88V,24W,S	SA
5	0501-002080	Q601	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	SA
5	1003-001674	IC400	IC-LCD CONTROLLER	SE7889,PQFP,100P,23.45x17.45mm,-,-,TR,PLASTIC,0.3-3.6V,0to+70C,-,-,-	SA
5	1103-001023	IC201	IC-EEPROM	24C08,1Kx8,SOP,8P,5x4mm,2.5/5.5V,0to+70C	SA
5	1203-003209	IC601	IC-MULTI REG.	APL5522,SOP,8P,4.9x3.9mm,PLASTIC,3.3V/2.5V,-,0to+150C,500mA/300mA,-,TP	SA
5	2007-000070	R200	R-CHIP	0ohm,5%,1/10W,TP,1608	SA
5	2007-000070	R227	R-CHIP	0ohm,5%,1/10W,TP,1608	SA
5	2007-000070	R502	R-CHIP	0ohm,5%,1/10W,TP,1608	SA
5	2007-000070	R503	R-CHIP	0ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R223	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R224	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R225	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R226	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R228	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R229	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R230	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R231	R-CHIP	100ohm,5%,1/10W,TP,1608	SA

Level	Code No.	Loc. No.	Description	Specification	Remarks
5	2007-000074	R232	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R234	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R235	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R236	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R237	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R239	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R240	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R242	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R247	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000077	R221	R-CHIP	470ohm,5%,1/10W,TP,1608	SA
5	2007-000077	R243	R-CHIP	470ohm,5%,1/10W,TP,1608	SA
5	2007-000078	R124	R-CHIP	1Kohm,5%,1/10W,TP,1608	SA
5	2007-000078	R241	R-CHIP	1Kohm,5%,1/10W,TP,1608	SA
5	2007-000078	R402	R-CHIP	1Kohm,5%,1/10W,TP,1608	SA
5	2007-000083	R233	R-CHIP	3Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R122	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R204	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R205	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R206	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R207	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R208	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R209	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R210	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R211	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R212	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R216	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R217	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R219	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R238	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R603	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R123	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R202	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R203	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R214	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R222	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R244	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R400	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R401	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R600	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R604	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000102	R602	R-CHIP	100Kohm,5%,1/10W,TP,1608	SA
5	2007-000113	R134	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R135	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R136	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R137	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R138	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R139	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000821	R106	R-CHIP	390ohm,1%,1/10W,TP,1608	SA
5	2007-000821	R403	R-CHIP	390ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R107	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R108	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R109	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R118	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R120	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2203-000189	C224	C-CER,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	SA
5	2203-000236	C116	C-CER,CHIP	0.1NF,5%,50V,C0G,TP,1608	SA
5	2203-000257	C106	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000257	C221	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000257	C222	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000257	C417	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000426	C204	C-CER,CHIP	0.018NF,5%,50V,C0G,TP,1608	SA
5	2203-000426	C416	C-CER,CHIP	0.018NF,5%,50V,C0G,TP,1608	SA
5	2203-000426	C418	C-CER,CHIP	0.018NF,5%,50V,C0G,TP,1608	SA
5	2203-000998	C117	C-CER,CHIP	0.047NF,5%,50V,C0G,TP,1608	SA
5	2203-005005	C100	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C101	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C102	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C103	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C104	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C105	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C110	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C112	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C114	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C200	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C203	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C220	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C400	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA

Level	Code No.	Loc. No.	Description	Specification	Remarks
5	2203-005005	C402	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C403	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C404	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C405	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C406	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C407	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C408	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C409	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C410	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C411	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C412	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C413	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C414	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C415	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C419	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C420	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C421	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C423	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C424	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C604	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C605	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C608	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C610	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005065	C206	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005065	C603	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005065	C606	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005437	C201	C-CER,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	SA
5	2203-005437	C205	C-CER,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	SA
5	2402-000108	C422	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-001042	C401	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	SA
5	2402-001042	C607	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	SA
5	2402-001042	C609	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	SA
5	2402-001042	C611	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	SA
5	2402-001042	C612	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	SA
5	2703-001334	BD106	INDUCTOR-SMD	1.5uH,10%,2012	SA
5	2703-001334	R119	INDUCTOR-SMD	1.5uH,10%,2012	SA
5	2703-001334	R121	INDUCTOR-SMD	1.5uH,10%,2012	SA
5	2801-003773	X400	CRYSTAL-SMD	12MHZ,30PPM,28-AAN,20PF,50OHM,TP	SA
5	3301-000314	BD100	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD101	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD102	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD103	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD104	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD105	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD200	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD201	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-001145	FT600	BEAD-SMD	60ohm,4516,6000mA,TP,70ohm/45MHz,82ohm/760MHz,0.01ohm	SNA
5	3711-005470	CN400	CONNECTOR-HEADER	BOX,30P,1R,1.25mm,SMD-A,Sn+Pb,IVR	SA
5	3711-005543	CN200	CONNECTOR-HEADER	BOX,6P,1R,1.25mm,SMD-A,SnPb,IVR	SA
5	BN41-00412D	MP1.3	PCB MAIN	MATISSE/GOYA2,STH,2L,MP1.3,1.6T,118*78.2,4A	SNA
2	BN91-00832B	-	ASSY SHIELD	MJ17AS	SNA
3	6001-000559	SH/COV+PAN	SCREW-MACHINE	FH,+,M3,L6,ZPC(YEL),SWRCH18A,FP,-	SNA
3	6003-000117	SH/COV+BRKT/PCB	SCREW-TAPTITE	BH,+,B,M3,L6,ZPC(YEL),SWRCH18A	SNA
3	6003-000276	SH/COV+C/F	SCREW-TAPTITE	BH,+,B,M3,L10,ZPC(YEL),SWCH10	SNA
3	BN39-00244A	CIS	CBF SIGNAL	BU15AO(T541A),15P/15P,20276-N,1830MM,UL20276,BLACK,D-SUB/MALE ,DET. TYPE	SA
3	BN39-00513A	CIS	LEAD CONNECTOR	MJ17AS(BS),UL1571#30,UL/CSA,30P,160MM,#30,1635L-30,12507HS-30L,BK,1571#30,SJ03-0	SA
3	BN39-00523C	CIS	LEAD CONNECTOR	MJ17/19*,UL1061#28,UL/CSA,6P/5P,90MM,#28,12507HS-06L,12505HS-05,BK,1061#28,AT TA	SA
3	BN61-01219A	CIS	SUPPORT-PANEL AU	GS17MS,MJ17BS,ABS HB,T3.6	SNA
3	BN61-01234A	CIS	HOLDER-INVERTER	MATISSE,ABS V0,BK07	SNA
3	BN64-00258A	CIS	PANEL-SPACER	MJ17AS/BS,ABS HB,BK07	SNA
3	BN96-01059A	CIS	ASSY MISC P-SHIELD COVER	MJ17AS/BS,SECC T1.0	SNA
4	BN63-01211A	CIS	SHIELD-COVER	MJ17AS,SECC,T0.8	SNA
4	BN63-01313A	CIS	COVER-INSULATOR	MJ17,19AS/BS,PET,T0.35	SNA

7-4 Others

Level	Code No.	Loc. No.	Description	Specification	Remarks
2	BN90-00486D	-	ASSY STAND	MJ17BS/GS17VT/GS17MS,EDC	SNA
3	BN96-01063A	STD	ASSY STAND P-SIMPLE	MJ15/17ASBS,ABS HB,BK07	SA
4	6003-000269	STD	SCREW-TAPTITE	BH,+,S,M3,L6,ZPC(YEL),SWRCH18A	SNA
4	6003-001086	STD	SCREW-TAPTITE	BH,+,B,M3,L12,ZPC(BLK),SWRCH18A	SNA
4	BN61-00822A	STD	STAND-BRKT HINGE	GS17VS,SECC,T1.2	SNA
4	BN61-00825A	STD	STAND-FRONT	GS17VS,ABS HB,BK07	SNA
4	BN61-00826A	STD	STAND-REAR	GS17VS,ABS HB,BK07	SNA
4	BN96-01061A	STD	ASSY MISC P-HINGE	MJ15-17AS/BS,ZNDC2	SNA
2	BN90-00641C	-	ASSY COVER REAR	MJ17AS	SNA
3	6003-000337	C/R+STD	SCREW-TAPTITE	BH,+,S,M4,L10,ZPC(BLK),SWRCH18	SA
3	BN96-01054B	C/R	ASSY COVER P-REAR	MJ17AS,ABS HB,BK07	SA
4	BN61-00377A	C/R	BRACKET-VESA	GOYA19"(193V),SECC,T1.0	SNA
4	BN63-01209B	C/R	COVER-REAR	MJ17AS,ABS HB,BK07,NONE 1.5	SNA
2	BN90-00642H	-	ASSY COVER FRONT	MJ17ASSB/SAI,ICC,SAUDI ARABIA	SNA
3	6003-001086	C/F+C/R	SCREW-TAPTITE	BH,+,B,M3,L12,ZPC(BLK),SWRCH18A	SNA
3	BN96-01056C	C/F	ASSY COVER P-FRONT	MJ17AS,ABS HB,BK07	SA
4	BN61-01243A	C/F	HOLDER-PCB	MJ17,ABS HB,BK07	SNA
4	BN63-01208B	C/F	COVER-FRONT	MJ17AS,ABS HB,BK07	SNA
4	BN64-00288C	C/F	KNOB-FUNCTION	MJ15/17/19,ABS,PC,BK07	SNA
4	BN67-00120A	C/F	LENS-LED	MATISSE,ACRYL,CLEAR	SNA
4	BN73-00069A	C/F	RUBBER-SUPPORT	MATISSE,CR,25*4,HB50,T3.5,BLK	SNA
4	BN96-01111A	C/F	ASSY BOARD P-FUNCTION	MATISSE,FUNCTION	SNA
2	BN91-00827A	-	ASSY LCD-ATH	MJ17AS/BS	SNA
3	BN07-00192A	LCD	LCD-PANEL	M170EG01,GY,6BIT,358.5*296.5*17,16.2M,4:3,0.264*0.264,0~50,5V,TN HPD	SNA
2	BN91-00831B	-	ASSY CHASSIS-ATH/Z,PTH/Z	MJ17AS W/W+±π∆«	SNA
3	BN44-00113A	CIS	IP BOARD	MATISSE,1.5mA~3.0mA,6.1mA~7.3mA,48kHz,4,AC90V~264VAC,5Vdc / 13Vdc,0°..._ 32°...,50/	SA
3	BN61-01547A	CIS	BRACKET-PCB	MJ17AS,SECC,T1.0,AU-ANALOG	SNA
2	BN92-00962G	-	ASSY LABEL	MJ17ASS*,W/W	SNA
3	BN68-00614A	LABEL	LABEL RATING-00	ALL,SS,PE,T0.05,90*45,BLK,POLYESTER,NO SILK	SNA
3	BN68-00657D	LABEL	LABEL RATING-01	ALL,SS,PE,T0.05,90,45,BLK,POLYESTER,EDC	SNA
2	BN92-01071V	-	ASSY P/MATERIAL	MJ17ASKB/EDC,EDC	SNA
3	6902-000111	P/M	BAG PE	HDPE,T0.015,L800,W650,TRP,28,4,PE MARK	SNA
3	6902-000379	P/M	BAG AIR	HDPE,T0.2,L1800,W1000,TRP,,,PAPER	SNA
3	6902-000604	P/M	BAG WRAPPING	LDPE,T0.02,W500,L10000,TRP,-,-	SNA
3	6902-000609	P/M	BAG ROLL	LDPE,T0.05,W2400,L1000,TRP,-,-	SNA
3	BH68-40364A	P/M	LABEL-SUMMARY	G52,G72,ART,100G,WHT,BLK,W142*	SNA
3	BH69-00457C	P/M	PACKING-PAD BOTTOM	CY15PO,FOAM,T3.0,1320,880	SNA
3	BH69-40321A	P/M	PACKING-PAD	SW-4,W2155*L140,-,DEC,-,-,-,-,	SNA
3	BN68-00129A	P/M	LABEL SHIPPING-00	-,LABEL SHIPPING,ART-PAPER,100G,-,WHT,BLACK,-,-,-	SNA
3	BN69-00123L	P/M	PAD PACKING	RJ15PO	SNA
3	BN69-00140T	P/M	PAD-PALLET COVER	SUN(LSA810),SW,900,3760,-,-,-,-,-	SNA
3	BN69-00617K	P/M	PALLET-PACKING	TS17AS,WOODEN,1310,910,120	SNA
3	BN69-00874A	P/M	CUSHION-SET	MJ17AS,EPS	SNA
2	BN92-01139M	-	ASSY BOX	MJ17ASKS/EDC,EDC,NETHERLANDS,NEW SIMPLE	SNA
3	BH68-00329C	BOX	LABEL BAR CODE-02	ALL,TCO99,DOMESTIC,MOJO 90G,WHT	SNA
3	BH75-10529C	BOX	UNIT-HANDLE/PACKING	S/M170MP,PE-LD,PE-HD,-,WHITE,-	SA
4	BN72-60001A	CIS	LEVER-TOP	LSD210TL,PE-LD,WHITE,TFT_LCD	SNA
4	BN72-60002C	CIS	LEVER-BOTTOM	S/M170MP,PE-HD,BLUE	SNA
3	BN69-00761F	BOX	BOX-01	S/M710N(MJ17AS) W/W,CB-SW4,YEL,A-1,W443*D425*H117,NEW SIMPLE	SNA
2	BN92-01207Q	-	ASSY ACCESSORY	MJ17ASKB/EDC	SNA
3	BN96-01384Q	UNIT/ACCESSORY	ASSY ACCESSORY	MJ17ASKS/EDC,EDC,NETHERLANDS,NEW SIMPLE	SA
4	3903-000042	ACCESSORY	CBF-POWER CORD	DT,EU,FP3/YES,IEC320 C13/C14,250/250V,10-16/10A,BLK,1830MM,-,H05VV-F 3X0.75MM^2,	SA
4	6902-000110	ACCESSORY	BAG PE	LDPE,T0.05,L356,W240,TRP,28,2,PE MARK	SNA
4	BH68-70438A	ACCESSORY	CARD-BLOC WARRANTY-09	TFT LCD,BASIC,EU,MOJO,100G,W21	SNA
4	BH68-70448A	ACCESSORY	CARD-01	TFT LCD,SRC,RUSSIA,S/W,120,W210*L120,INSTALL CARD	SNA
4	BN96-01171J	ACCESSORY	ASSY MANUAL P-IB+QSG	MJ17BS 701T,SyncMaster,WW,28 Lang,BN59-420J+BH68-376L	SNA
5	BH68-00376L	QUICK_SETUP	MANUAL-03	LCDQUICK SETUP GUIDE,SYNCMASTER,E/F/S/G/P/I..13LANGS,W/W,MOJO100G,298,420	SNA
5	BN59-00420J	IB	S/W DRIVER-00,IB	MJ17BS 701T,WW,SyncMaster,28 Lang.	SNA
3	BN96-01461B	ACCESSORY	ASSY STAND P-BASE	MATISSE 15/17,ABS HB,BK07,NO SPRAY	SA
4	6003-000142	STAND/BASE	SCREW-TAPTITE	FH,+,B,M3,L8,ZPC(BLK),SWRCH18A,-	SNA
4	6902-000389	STAND/BASE	BAG PE	HDPE/NITRON/HDPE,T0.02/T0.5/T0.02,W350,L300,TRP,8,2	SNA

Level	Code No.	Loc. No.	Description	Specification	Remarks
4	BH68-20366B	STAND/BASE	LABEL-00,STANDE BASE	MJ15,17,ART PAPER,55X10,RED	SNA
4	BN61-01435A	STAND/BASE	HOLDER-STAND	CH,+,M4,L10(4),ZPC(WHT),SWRCH18A	SNA
4	BN63-01489B	STD	COVER-STAND	MJ17,ABS,HB,BK07	SNA
4	BN63-01490A	STAND/BASE	COVER-STAND BASE	MJ17,ABS HB,BK07	SNA
4	BN68-00473W	STAND/BASE	MANUAL INSTALL	Goya2 Stand Guide,SyncMaster,W/W,Mojo100g,A4	SNA
4	BN73-00077A	STAND/BASE	RUBBER-FOOT	MATISSE,BUMPON,®™13.5,T2.0,60~70,BLACK	SNA

7-5 MJ19AS* Main PCB Parts

Level	Code No.	Loc. No.	Description	Specification	Remarks
0	MJ19ASAS/EDC				
1	E10-MJ19ASAS/EDC	-	1	LTM190E1-L02	-
3	BN94-00516T	-	ASSY PCB MAIN-E10/E17	GS19VS/MJ19AS	SA
4	0204-002420	CIS3	SOLVENT	1M-1000,C3H70H,96,-,-	SNA
4	0204-002426	CIS4	FLUX	DF-201TVS,MIX,0.820,FLUX 13%, 14KG,-	SNA
4	3701-001219	CN101	CONNECTOR-DSUB	15P,3R,FEMALE,ANGLE,AUF	SA
4	3711-004712	CN600	CONNECTOR-HEADER	BOX,9P,1R,2mm,STRAIGHT,SN	SA
4	6003-000117	IP/PCB+BRKT/PCB	SCREW-TAPTITE	BH,+,B,M3,L6,ZPC(YEL),SWRCH18A	SNA
4	6003-000117	M/PCB+BRKT/PCB	SCREW-TAPTITE	BH,+,B,M3,L6,ZPC(YEL),SWRCH18A	SNA
4	BN63-00995A	CIS8	GASKET	GY17MS,CONDUCTIVE FAB,4MM,15MM,100MM,GRAY,32K,71TSSK-15-4-100-13	SNA
4	BN97-00350S	MICOM	ASSY MICOM	GS17V/C/19V,MJ17/19A,W/W, KOREA,GM_AN_1.3EK	SA
5	0903-001347	IC200	IC-MICROCONTROLLER	NT68F63GL,8Bit,PLCC,44P,653MIL,12MHz,ST,-,PLASTIC,5.000000V,-,-0to+70C,256B,-,-	SNA
4	BN97-00358G	-	ASSY SMD	GS17VS/17VT/GS19VT	SNA
5	0401-001056	D101	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0401-001056	D103	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0401-001056	D105	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0402-001614	D600	DIODE-RECTIFIER	S1G,400V,1.0A,DO-214AC,TP	SA
5	0403-001411	D100	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0403-001411	ZD100	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0403-001411	ZD101	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0403-001411	ZD102	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0403-001411	ZD103	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0403-001411	ZD104	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0403-001411	ZD200	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0406-001061	IC106	DIODE-TVS	MMQA5V6T3,5.32/5.6/5.88V,24W,S	SA
5	0501-002080	Q601	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	SA
5	1003-001674	IC400	IC-LCD CONTROLLER	SE7889,PQFP,100P,23.45x17.45mm,-,-,TR,PLASTIC,0.3-3.6V,0to+70C,-,-,-	SA
5	1103-001023	IC201	IC-EEPROM	24C08,1Kx8,SOP,8P,5x4mm,2.5/5.5V,0to+70C	SA
5	1203-003209	IC601	IC-MULTI REG.	APL5522,SOP,8P,4.9x3.9mm,PLASTIC,3.3V/2.5V,-,0to+150C,500mA/300mA,-,TP	SA
5	2007-000070	R200	R-CHIP	0ohm,5%,1/10W,TP,1608	SA
5	2007-000070	R227	R-CHIP	0ohm,5%,1/10W,TP,1608	SA
5	2007-000070	R502	R-CHIP	0ohm,5%,1/10W,TP,1608	SA
5	2007-000070	R503	R-CHIP	0ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R223	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R224	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R225	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R226	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R228	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R229	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R230	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R231	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R232	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R234	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R235	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R236	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R237	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R239	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R240	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R242	R-CHIP	100ohm,5%,1/10W,TP,1608	SA

Level	Code No.	Loc. No.	Description	Specification	Remarks
5	2007-000074	R247	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000077	R221	R-CHIP	470ohm,5%,1/10W,TP,1608	SA
5	2007-000077	R243	R-CHIP	470ohm,5%,1/10W,TP,1608	SA
5	2007-000078	R124	R-CHIP	1Kohm,5%,1/10W,TP,1608	SA
5	2007-000078	R241	R-CHIP	1Kohm,5%,1/10W,TP,1608	SA
5	2007-000078	R402	R-CHIP	1Kohm,5%,1/10W,TP,1608	SA
5	2007-000083	R233	R-CHIP	3Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R122	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R204	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R205	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R206	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R207	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R208	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R209	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R210	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R211	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R212	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R216	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R217	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R219	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R238	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R603	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R123	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R202	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R203	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R214	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R222	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R244	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R400	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R401	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R600	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R604	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000102	R602	R-CHIP	100Kohm,5%,1/10W,TP,1608	SA
5	2007-000113	R134	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R135	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R136	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R137	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R138	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R139	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000821	R106	R-CHIP	390ohm,1%,1/10W,TP,1608	SA
5	2007-000821	R403	R-CHIP	390ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R107	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R108	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R109	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R118	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R120	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2203-000189	C224	C-CER,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	SA
5	2203-000236	C116	C-CER,CHIP	0.1NF,5%,50V,C0G,TP,1608	SA
5	2203-000257	C106	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000257	C221	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000257	C222	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000257	C417	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000426	C204	C-CER,CHIP	0.018NF,5%,50V,C0G,TP,1608	SA
5	2203-000426	C416	C-CER,CHIP	0.018NF,5%,50V,C0G,TP,1608	SA
5	2203-000426	C418	C-CER,CHIP	0.018NF,5%,50V,C0G,TP,1608	SA
5	2203-000998	C117	C-CER,CHIP	0.047NF,5%,50V,C0G,TP,1608	SA
5	2203-005005	C100	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C101	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C102	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C103	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C104	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C105	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C110	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C112	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C114	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C200	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C203	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C220	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C400	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C402	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C403	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C404	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA

Level	Code No.	Loc. No.	Description	Specification	Remarks
5	2203-005005	C405	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C406	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C407	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C408	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C409	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C410	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C411	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C412	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C413	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C414	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C415	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C419	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C420	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C421	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C423	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C424	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C604	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C605	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C608	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C610	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005065	C206	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005065	C603	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005065	C606	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005437	C201	C-CER,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	SA
5	2203-005437	C205	C-CER,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	SA
5	2402-000108	C422	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-001042	C401	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	SA
5	2402-001042	C607	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	SA
5	2402-001042	C609	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	SA
5	2402-001042	C611	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	SA
5	2402-001042	C612	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	SA
5	2703-001334	BD106	INDUCTOR-SMD	1.5uH,10%,2012	SA
5	2703-001334	R119	INDUCTOR-SMD	1.5uH,10%,2012	SA
5	2703-001334	R121	INDUCTOR-SMD	1.5uH,10%,2012	SA
5	2801-003773	X400	CRYSTAL-SMD	12MHZ,30PPM,28-AAN,20PF,50OHM,TP	SA
5	3301-000314	BD100	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD101	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD102	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD103	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD104	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD105	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD200	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD201	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-001145	FT600	BEAD-SMD	60ohm,4516,6000mA,TP,70ohm/45MHz,82ohm/760MHz,0.01ohm	SNA
5	3711-005470	CN400	CONNECTOR-HEADER	BOX,30P,1R,1.25mm,SMD-A,Sn+Pb,IVR	SA
5	3711-005543	CN200	CONNECTOR-HEADER	BOX,6P,1R,1.25mm,SMD-A,SnPb,IVR	SA
5	BN41-00412D	MP1.3	PCB MAIN	MATISSE/GOYA2,STH,2L,MP1.3,1.6T,118*78.2,4A	SNA
2	BN91-00813V	-	ASSY SHIELD	MJ19AS	SNA
3	6001-000364	SH/COV+PAN	SCREW-MACHINE	FH,+,M3,L8,ZPC(YEL),SWRCH18A,-,-	SNA
3	6003-000117	SH/COV+BRKT/PCB	SCREW-TAPTITE	BH,+,B,M3,L6,ZPC(YEL),SWRCH18A	SNA
3	6003-000276	SH/COV+C/F	SCREW-TAPTITE	BH,+,B,M3,L10,ZPC(YEL),SWCH10	SNA
3	BN39-00244A	CIS	CBF SIGNAL	BU15AO(T541A),15P/15P,20276-N,1830MM,UL20276,BLACK,D-SUB/MALE ,DET. TYPE	SA
3	BN39-00506A	CIS	LEAD CONNECTOR	GS17/19*/MJ19,UL1571#30,UL/CSA,30P,160MM,#30,12507HS-30L,1615A-30,BK,1571#30,SJ0	SA
3	BN39-00523C	CIS	LEAD CONNECTOR	MJ17/19*,UL1061#28,UL/CSA,6P/5P,90MM,#28,12507HS-06L,12505HS-05,BK,1061#28,AT TA	SA
3	BN96-01060A	CIS	ASSY MISC P-SHIELD COVER	MJ19AS/BS,SECC T1.0	SNA
4	BN63-01217A	CIS	SHIELD-COVER	MJ19AS,SECC,T1.0	SNA
4	BN63-01313A	CIS	COVER-INSULATOR	MJ17,19AS/BS,PET,T0.35	SNA

7-6 Others

Level	Code No.	Loc. No.	Description	Specification	Remarks
2	BN90-00640K	-	ASSY COVER FRONT	MJ19AS	SNA
3	6003-001086	C/F+C/R	SCREW-TAPTITE	BH,+,B,M3,L12,ZPC(BLK),SWRCH18A	SNA
3	BN96-01057B	C/F	ASSY COVER P-FRONT	MJ19AS,ABS HB,GR70,SILVER SPRAY	SA
4	BN61-01243A	C/F	HOLDER-PCB	MJ17,ABS HB,BK07	SNA
4	BN63-01214A	C/F	COVER-FRONT	MJ19A/BS,ABS,HB,GR70	SNA
4	BN64-00288A	C/F	KNOB-FUNCTION	MJ17,ABS,PC,GR70,SPRAY	SNA
4	BN67-00120A	C/F	LENS-LED	MATISSE,ACRYL,CLEAR	SNA
4	BN68-00753B	C/F	LABEL-MAGIC,T,B	LCD,W/W,PE CLAER,T0.05,68,16,4DO SILK	SNA
4	BN73-00069A	C/F	RUBBER-SUPPORT	MATISSE,CR,25*4,HB50,T3.5,BLK	SNA
4	BN96-01111A	C/F	ASSY BOARD P-FUNCTION	MATISSE,FUNCTION	SNA
2	BN90-00643T	-	ASSY COVER REAR	MJ19ASAS/*,BK07	SNA
3	BN96-01055L	C/R	ASSY COVER P-REAR	MJ19AS,PIVOT,ABS HB BK07,CORE"E"	SA
4	BN61-00377A	C/R	BRACKET-VESA	GOYA19"(193V),SECC,T1.0	SNA
4	BN63-01215L	C/R	COVER-REAR	MJ19AS,ABS HB BK07,CORE"E"	SNA
2	BN90-00657A	-	ASSY STAND	MJ19PS,GR70+BK07,SILVER	SNA
3	BN96-01305A	STD	ASSY STAND P-PIVOT	MATISSE19",ABS HB,SILVER&BLACK	SA
4	6001-001547	STD	SCREW-MACHINE	BH,+,M4,L10(5),ZPC(BLK),SWRCH18A,FP	SNA
4	6003-000015	STD	SCREW-TAPTITE	BH,+,B,M3,L8,ZPC(YEL),SWRCH18A	SC
4	6003-000133	STD	SCREW-TAPTITE	BH,+,-,S,M4,L8,ZPC(BLK),SWRCH18A,-	SNA
4	6003-000142	STD	SCREW-TAPTITE	FH,+,B,M3,L8,ZPC(BLK),SWRCH18A,-	SNA
4	6003-000301	STD	SCREW-TAPTITE	BH,+,S,M4,L6,ZPC(YEL),SWRCH18A	SNA
4	6003-001136	STD	SCREW-TAPTITE	BH,+,B,M4,L8,ZPC(YEL),SWRCH18A	SNA
4	6003-001238	STD	SCREW-TAPTITE	FH,+,S,M4,L8,ZPC(BLK),SWRCH18A	SNA
4	6003-001374	STD	SCREW-TAPTITE	FH,+,B,M4,L12,NI PLT,SWRCH18A,-	SNA
4	6009-001447	STD	SCREW-SPECIAL	CH,+,-,M4,L4,NI PLT,SWRCH18A,TAPTITE,HD:5,HT:3.7	SNA
4	BN61-00251A	STD	FOOT-RUBBER	GH17BS,RUBBER,T1.6	SNA
4	BN61-00823A	STD	STAND-COVER,BASE	MJ17AS,ABS HB IV16	SNA
4	BN61-01066A	STD	STAND-BRKT BASE	MJ17AS,SECC,T1.6,NAT	SNA
4	BN61-01114A	STD	STAND-COVER,FRONT	MJ17AS,ABS HB,IV16	SNA
4	BN61-01115A	STD	STAND-COVER,REAR	MJ17AS,ABS HB,IV16	SNA
4	BN61-01116A	STD	STAND-COVER SWIVEL	MJ17AS,ACETAL,IV16	SNA
4	BN61-01117A	STD	STAND-SWIVEL GUIDE	MJ17AS,ABS HB,IV16	SNA
4	BN61-01118A	STD	STAND-LIFT,OUT	MJ17AS,ACETAL,NAT	SNA
4	BN61-01119A	STD	STAND-LIFT,IN	MJ17AS,ACETAL,NAT	SNA
4	BN61-01120A	STD	STAND-COVER,SEMI	MJ17AS,ABS HB,IV16	SNA
4	BN61-01121A	STD	STAND-COVER,VESA	MJ17AS,ABS HB,IV16	SNA
4	BN61-01122A	STD	STAND-COVER,TILT	MJ17AS,ABS HB,IV16	SNA
4	BN61-01123A	STD	STAND-GUIDE,STOPPER	MJ17AS,ABS HB,IV16	SNA
4	BN61-01124A	STD	STAND-CABLE,HOLDER	MJ17AS,ABS HB,IV16	SNA
4	BN61-01125A	STD	STAND-COVER TOP	MJ17AS,ABS HB,IV16	SNA
4	BN61-01126A	STD	STAND-BRKT,BODY	MJ17AS,SECC,T1.6,NAT	SNA
4	BN61-01127A	STD	STAND-BRKT,FRAME	MJ17AS,SECC,T2.0,NAT	SNA
4	BN61-01128A	STD	STAND-BRKT,LIFT	MJ17AS,SK-5,T2.0,NAT	SNA
4	BN61-01129A	STD	STAND-BRKT,VESA	MJ17AS,SECC,T2.0,NAT	SNA
4	BN61-01130A	STD	STAND-GUIDE FRAME	MJ17AS,ZN-2 DIE CAST,T0.15,NAT	SNA
4	BN61-01331A	STD	STAND-WINDUP SPRING	MATISSE,STS301 EH,T0.3,NAT	SNA
4	BN68-00693C	STD	LABEL-00,PIVOT STAND	ALL(19"),ART PAPER 100(S),W50,L20,WHITE,YELLOR	SNA
4	BN72-00283A	STD	GUIDE	GH15PS,ACETAL,WHITE,PORSCHE 15 STAND	SNA
4	BN96-01061A	STD	ASSY MISC P-HINGE	MJ15-17AS/BS,ZNDC2	SNA
4	BN96-01279A	STD	ASSY MISC P-PIVOT HINGE	MATISSE17"/19",PIVOT-HINGE	SNA
4	BN96-01304A	STD	ASSY MISC P-STOPPER PIN	MATISSE,SUST1.0	SNA
2	BN91-00403C	-	ASSY LCD-E10	MO19ES	SNA
3	BN07-00128A	LCD	LCD	LTM190E1-L02,Goya,16.1M,404.2*330*20,16.2M,63,0.294*0.294,0~50,5V,PVa	SA
2	BN91-00784T	-	ASSY CHASSIS	MJ19AS	SA
3	BN44-00113A	CIS	IP BOARD	MATISSE,1.5mA~3.0mA,6.1mA~7.3mA,48kHz,4,AC90V~264VAC,5Vdc / 13Vdc,0°..._ 32°...,50/	SA
3	BN61-01103A	CIS	BRACKET-PCB	MJ19AS,SECC,T1.0	SNA
2	BN92-00329Y	-	ASSY LABEL	MJ/GS,W/W	SNA
3	BN68-00614A	LABEL	LABEL RATING-00	ALL,SS,PE,T0.05,90*45,BLK,POLYESTER,NO SILK	SNA
3	BN68-00657D	LABEL	LABEL RATING-01	ALL,SS,PE,T0.05,90,45,BLK,POLYESTER,EDC	SNA

Level	Code No.	Loc. No.	Description	Specification	Remarks
2	BN92-00936T	-	ASSY P/MATERIAL	MJ19AS/BS	SNA
3	6902-000379	P/M	BAG AIR	HDPE,T0.2,L1800,W1000,TRP,,,PAPER	SNA
3	6902-000520	P/M	BAG PE	HDPE/NITRON(DOUBLE),T0.015/T0.5(DOUBLE),W700,L700,TRP,28 LANGUAGE,2-	SNA
3	6902-000604	P/M	BAG WRAPPING	LDPE,T0.02,W500,L10000,TRP,-,-	SNA
3	6902-000609	P/M	BAG ROLL	LDPE,T0.05,W2400,L1000,TRP,-,-	SNA
3	BH68-40364A	P/M	LABEL-SUMMARY	G52,G72,ART,100G,WHT,BLK,W142*	SNA
3	BH69-00457B	P/M	PACKING-PAD BOTTOM	GH15,FOAM,T3.0,930,1000	SNA
3	BH69-40321A	P/M	PACKING-PAD	SW-4,W2155*L140,-,DEC,-,-,-,-,	SNA
3	BH69-40355A	P/M	PACKING-PALLET	WOOD,W1080*L900*H130,-,CQN5307	SNA
3	BH69-40383J	P/M	PACKING-PAD/TOP	CB-SW4,960*760,-,CGE7507	SNA
3	BN68-00129A	P/M	LABEL SHIPPING-00	-,LABEL SHIPPING,ART-PAPER,100G,-,WHT,BLACK,-,-,-	SNA
3	BN69-00140A	P/M	PAD-PALLET COVER	CN15,SW,900*3650,1305,-,-,-,-,-	SNA
3	BN69-00140R	P/M	PAD-PALLET COVER	IBM(T85),SW,1000*3500,1166,-,-,-,-,-	SNA
3	BN69-00743A	P/M	CUSHION-PIVOT	MJ19AS,EPS M50	SNA
2	BN92-01049Z	-	ASSY ACCESSORY	MJ17ASAS/EDC,EDC,NETHERLANDS	SNA
3	BN96-01184Z	UNIT/ACCESSORY	ASSY ACCESSORY	MJ17ASAS/EDC,EDC,NETHERLANDS,PIVOT	SA
4	3903-000042	ACCESSORY	CBF-POWER CORD	DT,EU,FP3/YES,IEC320 C13/C14,250/250V,10-16/10A,BLK,1830MM,-,H05VV-F 3X0.75MM^2,	SA
4	6902-000110	ACCESSORY	BAG PE	LDPE,T0.05,L356,W240,TRP,28,2,PE MARK	SNA
4	BH68-70438A	ACCESSORY	CARD-BLOC WARRANTY-09	TFT LCD,BASIC,EU,MOJO,100G,W21	SNA
4	BH68-70448A	ACCESSORY	CARD-01	TFT LCD,SRC,RUSSIA,S/W,120,W210*L120,INSTALL CARD	SNA
4	BN59-00048A	ACCESSORY	S/W DRIVER-7.5	SYNCMASTER,PIVOT,SAMSUNG	SNA
4	BN96-01171A	ACCESSORY	ASSY MANUAL P-IB+QSG	710N,SyncMaster,W/W,27Lang,BN59-420A+BH68-376L	SNA
5	BH68-00376L	CIS	MANUAL-03	LCDQUICK SETUP GUIDE,SYNCMASTER,E/F/S/G/P/I..13LANGS,W/W,MOJO100G,298,420	SNA
5	BN59-00420A	CIS	S/W DRIVER-06,IB	710T,W/W,SyncMaster,27 Lang	SNA
2	BN92-01059C	-	ASSY BOX	MJ19ASAS/EDC,EDC,NETHERLANDS,PIVOT	SNA
3	BH68-00328Q	BOX	LABEL BOX	LABEL-BARCODE,W/W,CE+P+TCO99,ART-PAPER 100G,70*60,90*95,WHT	SNA
3	BH75-10529C	BOX	UNIT-HANDLE/PACKING	S/M170MP,PE-LD,PE-HD,-,WHITE,-	SA
4	BN72-60001A	CIS	LEVER-TOP	LSD210TL,PE-LD,WHITE,TFT_LCD	SNA
4	BN72-60002C	CIS	LEVER-BOTTOM	S/M170MP,PE-HD,BLUE	SNA
3	BN69-00805A	BOX	BOX-03	S/M910N(MJ19AS) W/W,CB-SW4,YEL,A-1,L523*W431*H214,PIVOT	SNA

7-7 MJ19ES* Main PCB Parts

Level	Code No.	Loc. No.	Description	Specification	Remarks
0	MJ19ES				
1	STH-MJ19ES	-	1	SDI,TN-HPD	-
3	BN94-00613W	-	ASSY PCB MAIN	NEW	SNA
4	0204-002420	CIS3	SOLVENT	1M-1000,C3H70H,96,-,-	SNA
4	0204-002426	CIS4	FLUX	DF-201TVS,MIX,0.820,FLUX 13%, 14KG,-	SNA
4	3701-001219	CN101	CONNECTOR-DSUB	15P,3R,FEMALE,ANGLE,AUF	SA
4	3711-004712	CN600	CONNECTOR-HEADER	BOX,9P,1R,2mm,STRAIGHT,SN	SA
4	6003-000117	IP/PCB+BRKT/PCB	SCREW-TAPTITE	BH,+,B,M3,L6,ZPC(YEL),SWRCH18A	SNA
4	6003-000117	M/PCB+BRKT/PCB	SCREW-TAPTITE	BH,+,B,M3,L6,ZPC(YEL),SWRCH18A	SNA
4	BN63-00995A	CIS8	GASKET	GY17MS,CONDUCTIVE FAB,4MM,15MM,100MM,GRAY,32K,71TSSK-15-4-100-13	SNA
4	BN97-00350S	MICOM	ASSY MICOM	GS17V/C/19V,MJ17/19A,W/W, KOREA,GM_AN_1.3EK	SA
5	0903-001347	IC200	IC-MICROCONTROLLER	NT68F63GL,8Bit,PLCC,44P,653MIL,12MHz,ST,-,PLASTIC,5.000000V,-,-0to+70C,256B,-,-	SNA
4	BN97-00358G	-	ASSY SMD	GS17VS/17VT/GS19VT	SNA
5	0401-001056	D101	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0401-001056	D103	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0401-001056	D105	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0402-001614	D600	DIODE-RECTIFIER	S1G,400V,1.0A,DO-214AC,TP	SA
5	0403-001411	D100	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0403-001411	ZD100	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0403-001411	ZD101	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0403-001411	ZD102	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA

Level	Code No.	Loc. No.	Description	Specification	Remarks
5	0403-001411	ZD103	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0403-001411	ZD104	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0403-001411	ZD200	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0406-001061	IC106	DIODE-TVS	MMQA5V6T3,5.32/5.6/5.88V,24W,S	SA
5	0501-002080	Q601	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	SA
5	1003-001674	IC400	IC-LCD CONTROLLER	SE7889,PQFP,100P,23.45x17.45mm,-,-,-TR,PLASTIC,0.3-3.6V,0to+70C,-,-,-	SA
5	1103-001023	IC201	IC-EEPROM	24C08,1Kx8,SOP,8P,5x4mm,2.5/5.5V,0to+70C	SA
5	1203-003209	IC601	IC-MULTI REG.	APL5522,SOP,8P,4.9x3.9mm,PLASTIC,3.3V/2.5V,-,0to+150C,500mA/300mA,-,TP	SA
5	2007-000070	R200	R-CHIP	0ohm,5%,1/10W,TP,1608	SA
5	2007-000070	R227	R-CHIP	0ohm,5%,1/10W,TP,1608	SA
5	2007-000070	R502	R-CHIP	0ohm,5%,1/10W,TP,1608	SA
5	2007-000070	R503	R-CHIP	0ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R223	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R224	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R225	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R226	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R228	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R229	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R230	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R231	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R232	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R234	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R235	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R236	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R237	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R239	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R240	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R242	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R247	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000077	R221	R-CHIP	470ohm,5%,1/10W,TP,1608	SA
5	2007-000077	R243	R-CHIP	470ohm,5%,1/10W,TP,1608	SA
5	2007-000078	R124	R-CHIP	1Kohm,5%,1/10W,TP,1608	SA
5	2007-000078	R241	R-CHIP	1Kohm,5%,1/10W,TP,1608	SA
5	2007-000078	R402	R-CHIP	1Kohm,5%,1/10W,TP,1608	SA
5	2007-000083	R233	R-CHIP	3Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R122	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R204	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R205	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R206	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R207	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R208	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R209	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R210	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R211	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R212	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R216	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R217	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R219	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R238	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R603	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R123	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R202	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R203	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R214	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R222	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R244	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R400	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R401	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R600	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R604	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000102	R602	R-CHIP	100Kohm,5%,1/10W,TP,1608	SA
5	2007-000113	R134	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R135	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R136	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R137	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R138	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R139	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000821	R106	R-CHIP	390ohm,1%,1/10W,TP,1608	SA
5	2007-000821	R403	R-CHIP	390ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R107	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R108	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R109	R-CHIP	75ohm,1%,1/10W,TP,1608	SA

Level	Code No.	Loc. No.	Description	Specification	Remarks
5	2007-001164	R118	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R120	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2203-000189	C224	C-CER,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	SA
5	2203-000236	C116	C-CER,CHIP	0.1NF,5%,50V,C0G,TP,1608	SA
5	2203-000257	C106	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000257	C221	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000257	C222	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000257	C417	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000426	C204	C-CER,CHIP	0.018NF,5%,50V,C0G,TP,1608	SA
5	2203-000426	C416	C-CER,CHIP	0.018NF,5%,50V,C0G,TP,1608	SA
5	2203-000426	C418	C-CER,CHIP	0.018NF,5%,50V,C0G,TP,1608	SA
5	2203-000998	C117	C-CER,CHIP	0.047NF,5%,50V,C0G,TP,1608	SA
5	2203-005005	C100	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C101	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C102	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C103	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C104	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C105	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C110	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C112	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C114	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C200	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C203	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C220	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C400	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C402	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C403	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C404	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C405	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C406	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C407	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C408	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C409	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C410	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C411	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C412	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C413	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C414	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C415	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C419	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C420	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C421	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C423	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C424	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C604	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C605	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C608	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C610	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005065	C206	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005065	C603	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005065	C606	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005437	C201	C-CER,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	SA
5	2203-005437	C205	C-CER,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	SA
5	2402-000108	C422	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2402-001042	C401	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	SA
5	2402-001042	C607	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	SA
5	2402-001042	C609	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	SA
5	2402-001042	C611	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	SA
5	2402-001042	C612	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	SA
5	2703-001334	BD106	INDUCTOR-SMD	1.5uH,10%,2012	SA
5	2703-001334	R119	INDUCTOR-SMD	1.5uH,10%,2012	SA
5	2703-001334	R121	INDUCTOR-SMD	1.5uH,10%,2012	SA
5	2801-003773	X400	CRYSTAL-SMD	12MHZ,30PPM,28-AAN,20PF,50OHM,TP	SA
5	3301-000314	BD100	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD101	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD102	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD103	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD104	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD105	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD200	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD201	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-001145	FT600	BEAD-SMD	60ohm,4516,6000mA,TP,70ohm/45MHz,82ohm/760MHz,0.01ohm	SNA

Level	Code No.	Loc. No.	Description	Specification	Remarks
5	3711-005470	CN400	CONNECTOR-HEADER	BOX,30P,1R,1.25mm,SMD-A,Sn+Pb,IVR	SA
5	3711-005543	CN200	CONNECTOR-HEADER	BOX,6P,1R,1.25mm,SMD-A,SnPb,IVR	SA
5	BN41-00412D	MP1.3	PCB MAIN	MATISSE/GOYA2,STH,2L,MP1.3,1.6T,118*78.2,4A	SNA

7-8 Others

Level	Code No.	Loc. No.	Description	Specification	Remarks
2	BN92-00329Y	-	ASSY LABEL	MJ/GS,W/W	SNA
3	BN68-00614A	LABEL	LABEL RATING-00	ALL,SS,PE,T0.05,90*45,BLK,POLYESTER,NO SILK	SNA
3	BN68-00657D	LABEL	LABEL RATING-01	ALL,SS,PE,T0.05,90,45,BLK,POLYESTER,EDC	SNA
2	BN92-01136F	-	ASSY P/MATERIAL	MJ19ASK*/*,NEW SIMPLE	SNA
3	6902-000379	P/M	BAG AIR	HDPE,T0.2,L1800,W1000,TRP,,,PAPER	SNA
3	6902-000520	P/M	BAG PE	HDPE/NITRON(DOUBLE),T0.015/T0.5(DOUBLE),W700,L700,TRP,28 LANGUAGE,2-	SNA
3	6902-000604	P/M	BAG WRAPPING	LDPE,T0.02,W500,L10000,TRP,-,-	SNA
3	6902-000609	P/M	BAG ROLL	LDPE,T0.05,W2400,L1000,TRP,-,-	SNA
3	BH68-40364A	P/M	LABEL-SUMMARY	G52,G72,ART,100G,WHT,BLK,W142*	SNA
3	BH69-00457B	P/M	PACKING-PAD BOTTOM	GH15,FOAM,T3.0,930,1000	SNA
3	BH69-40303L	P/M	PACKING-PALLET	WOOD,1020*994*130,-,ML15NS	SNA
3	BH69-40321A	P/M	PACKING-PAD	SW-4,W2155*L140,-,DEC,-,-,-,-	SNA
3	BN68-00129A	P/M	LABEL SHIPPING-00	-,LABEL SHIPPING,ART-PAPER,100G,-,WHT,BLACK,-,-,-	SNA
3	BN69-00140P	P/M	PAD-PALLET COVER	SUN15,SW,1000*3780,1310,-,-,-,-,-	SNA
3	BN69-00875A	P/M	CUSHION-SET	MJ19AS,EPS	SNA
2	BN92-01248P	-	ASSY BOX	NEW	SNA
3	BH68-00329C	BOX	LABEL BAR CODE-02	ALL,TCO99,DOMESTIC,MOJO 90G,WHT	SNA
3	BH75-10529C	BOX	UNIT-HANDLE/PACKING	S/M170MP,PE-LD,PE-HD,-,WHITE,-	SA
4	BN72-60001A	CIS	LEVER-TOP	LSD210TL,PE-LD,WHITE,TFT_LCD	SNA
4	BN72-60002C	CIS	LEVER-BOTTOM	S/M170MP,PE-HD,BLUE	SNA
3	BN69-00756J	BOX	BOX-00	S/M913N(MJ19AS) W/W,CB-SW4,YEL,A-1,W497*D482*H126,NEW SIMPLE	SNA
2	BN92-01255P	-	ASSY ACCESSORY	NEW	SNA
3	BN96-01462A	ACCESSORY	ASSY STAND P-BASE	MATISSE19",ABS HB,SILVER,BLACK,NEW SIMPLE/BASE	SNA
4	6003-000142	STAND/BASE	SCREW-TAPTITE	FH,+,B,M3,L8,ZPC(BLK),SWRCH18A,-	SNA
4	6902-000389	STAND/BASE	BAG PE	HDPE/NITRON/HDPE,T0.02/T0.5/T0.02,W350,L300,TRP,8,2	SNA
4	BH68-20366C	STAND/BASE	LABEL-00,STANDE BASE	MJ19,ART PAPER,55X10,YELLOW	SNA
4	BN61-01384A	STAND/BASE	BRACKET-STAND BOTTOM	MJ19,SECC,T1.6	SNA
4	BN61-01435A	STAND/BASE	HOLDER-STAND	CH,+,M4,L10(4),ZPC(WHT),SWRCH18A	SNA
4	BN63-01491A	STAND/BASE	COVER-STAND	MJ19,ABS HB,BK07	SNA
4	BN63-01492A	STAND/BASE	COVER-STAND BASE	MJ19,ABS HB,BK07	SNA
4	BN68-00473W	STAND/BASE	MANUAL INSTALL	Goya2 Stand Guide,SyncMaster,W/W,Mojo100g,A4	SNA
4	BN73-00077A	STAND/BASE	RUBBER-FOOT	MATISSE,BUMPON,®™13.5,T2.0,60~70,BLACK	SNA
3	BN96-01695S	UNIT/ACCESSORY	ASSY ACCESSORY	MH17FSSSU/XST,TSE,THAILAND	SNA
4	3903-000042	ACCESSORY	CBF-POWER CORD	DT,EU,FP3/YES,IEC320 C13/C14,250/250V,10-16/10A,BLK,1830MM,-,H05VV-F 3X0.75MM^2,	SA
4	6902-000110	ACCESSORY	BAG PE	LDPE,T0.05,L356,W240,TRP,28,2,PE MARK	SNA
4	BH68-70438A	ACCESSORY	CARD-BLOC WARRANTY-09	TFT LCD,BASIC,EU,MOJO,100G,W21	SNA
4	BH68-70448A	ACCESSORY	CARD-01	TFT LCD,SRC,RUSSIA,S/W,120,W210*L120,INSTALL CARD	SNA
4	BN96-01171K	ACCESSORY	ASSY MANUAL P-IB+QSG	MJ19ES 913N,SyncMaster,W/W,28Lang,BN59-420K+BH68-376L	SNA
5	BH68-00376L	QUICK SETUP	MANUAL-03	LCDQUICK SETUP GUIDE,SYNCMASTER,E/F/S/G/P/I..13LANGS,W/W,MOJO100G,298,420	SNA
5	BN59-00420K	IB	S/W DRIVER-00,IB	MJ19ES 913N,WW,SyncMaster,28 Lang.	SNA

7-9 MJ15BS*/MJ17BS*/MJ19BS* Different Circuit Part List

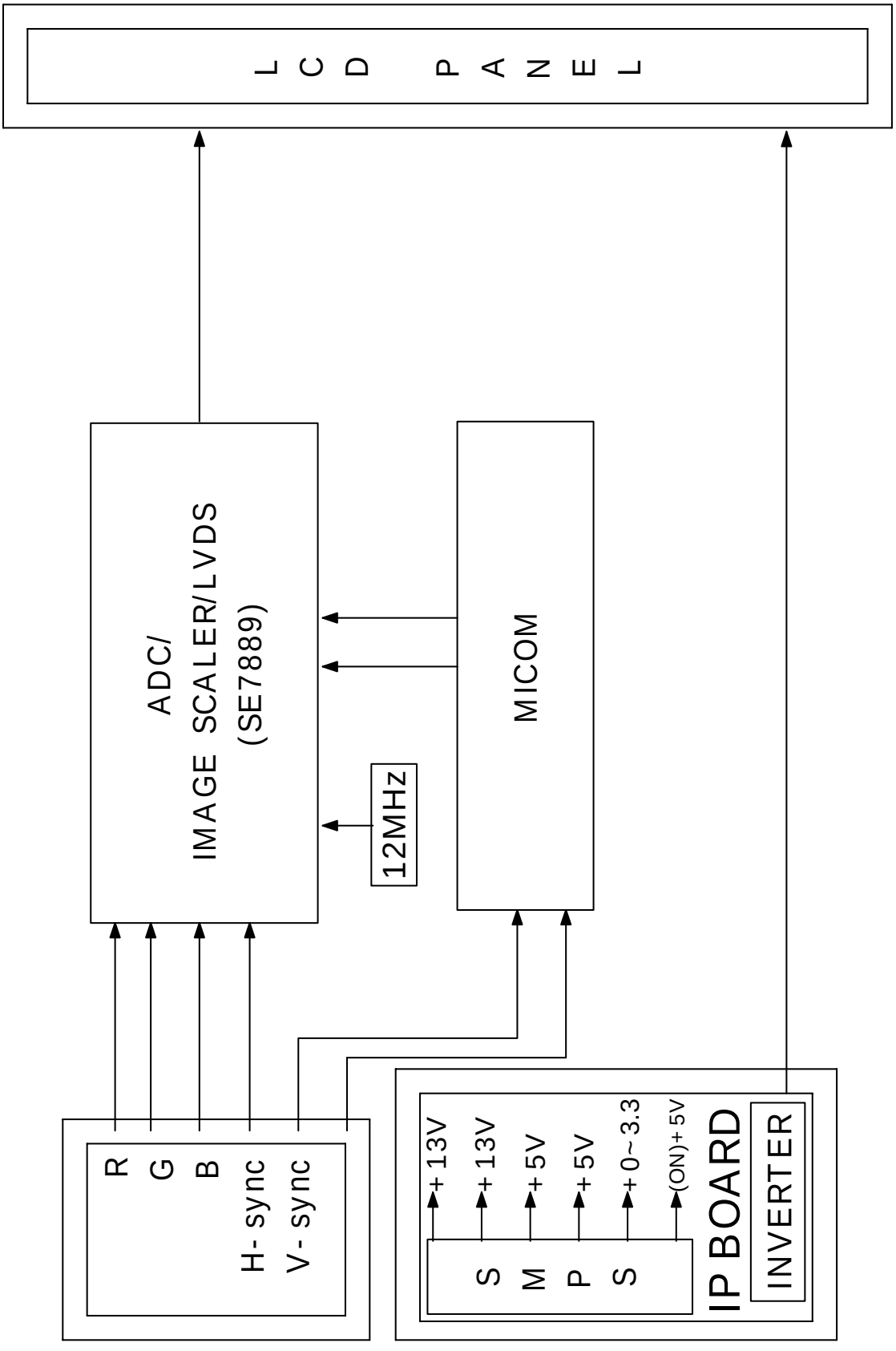
Loc. No	Code	Description
C111	2203-001402	C-CERAMIC,CHIP
C113	2203-001402	C-CERAMIC,CHIP
C119	2203-001402	C-CERAMIC,CHIP
C120	2203-001402	C-CERAMIC,CHIP
C123	2203-001402	C-CERAMIC,CHIP
C125	2203-001402	C-CERAMIC,CHIP
C126	2203-005005	C-CERAMIC,CHIP
C127	2203-001402	C-CERAMIC,CHIP
C128	2203-001402	C-CERAMIC,CHIP
CN102	3701-001173	CONNECTOR-DSUB
D102	0401-001056	DIODE-SWITCHING
D104	0401-001056	DIODE-SWITCHING
D106	0401-001056	DIODE-SWITCHING
D107	0401-001056	DIODE-SWITCHING
D108	0401-001056	DIODE-SWITCHING
D109	0403-001411	DIODE-ZENER
D110	0403-001411	DIODE-ZENER
D111	0401-001056	DIODE-SWITCHING
D112	0401-001056	DIODE-SWITCHING
D113	0401-001056	DIODE-SWITCHING
D114	0403-001411	DIODE-ZENER
D115	0403-001411	DIODE-ZENER
IC101	1103-000129	IC-EEPROM
IC107	0406-001061	DIODE-TVS
Q100	0501-002080	TR-SMALL SIGNAL
R110	2007-000071	R-CHIP
R111	2007-000071	R-CHIP
R112	2007-000071	R-CHIP
R113	2007-000071	R-CHIP
R114	2007-000071	R-CHIP
R115	2007-000071	R-CHIP
R116	2007-000071	R-CHIP
R117	2007-000071	R-CHIP
R125	2007-000078	R-CHIP
R126	2007-000092	R-CHIP
R127	2007-000092	R-CHIP
R128	2007-000074	R-CHIP
R129	2007-000074	R-CHIP
R130	2007-001002	R-CHIP
R131	2007-000090	R-CHIP
R132	2007-000074	R-CHIP

7-10 MJ15AS*/MJ17AS*/MJ19AS*/MJ15BS*/MJ17BS*/MJ19BS*/MJ19ES* Different Mechanical Part List

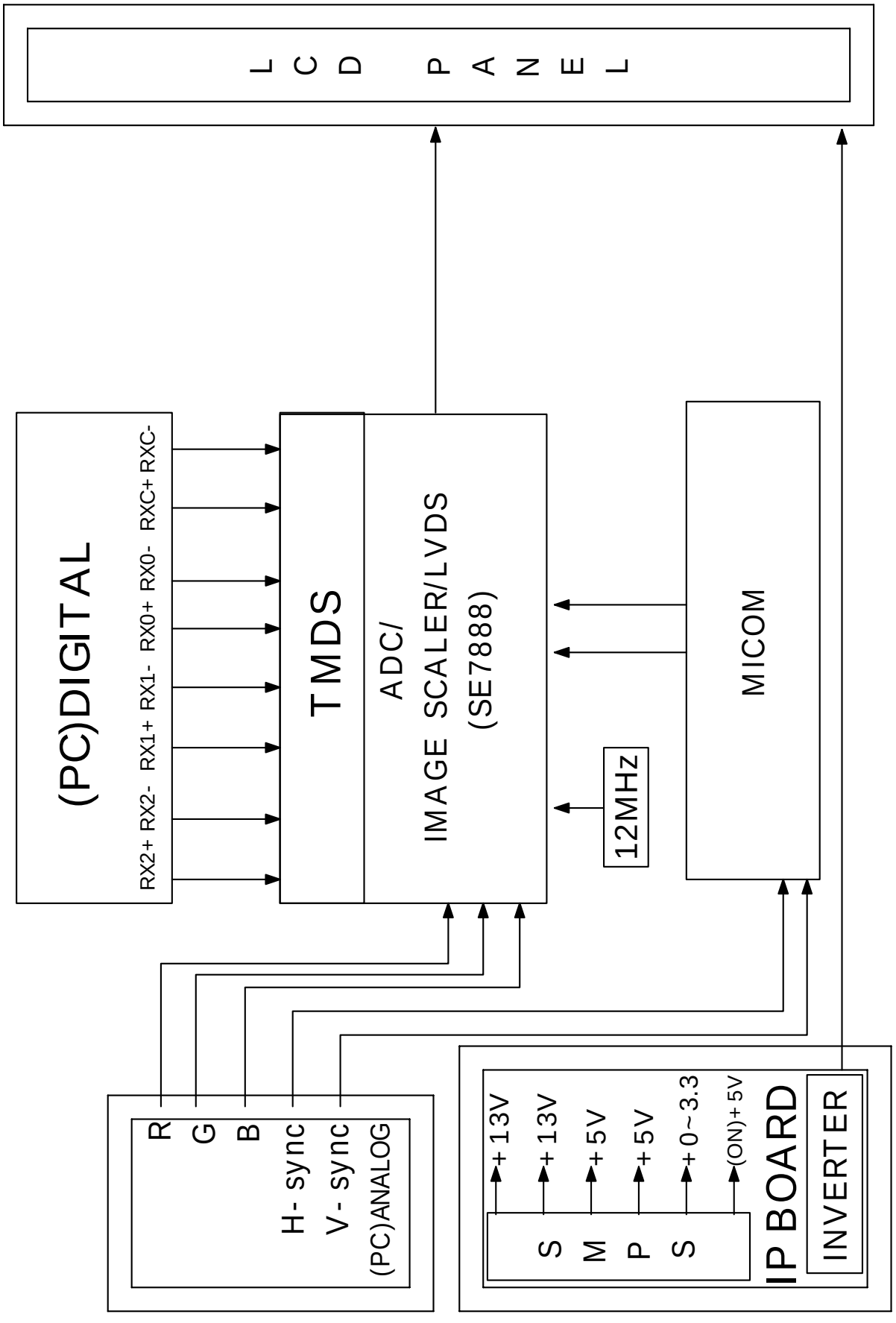
* Refer to Chapter 6 Exploded View and Parts List for All Models Different Mechanically Part List.

8 Block Diagram

8-1 MJ15AS*/MJ17AS*/MJ19AS*/MJ19ES* ANALOG Block Diagram

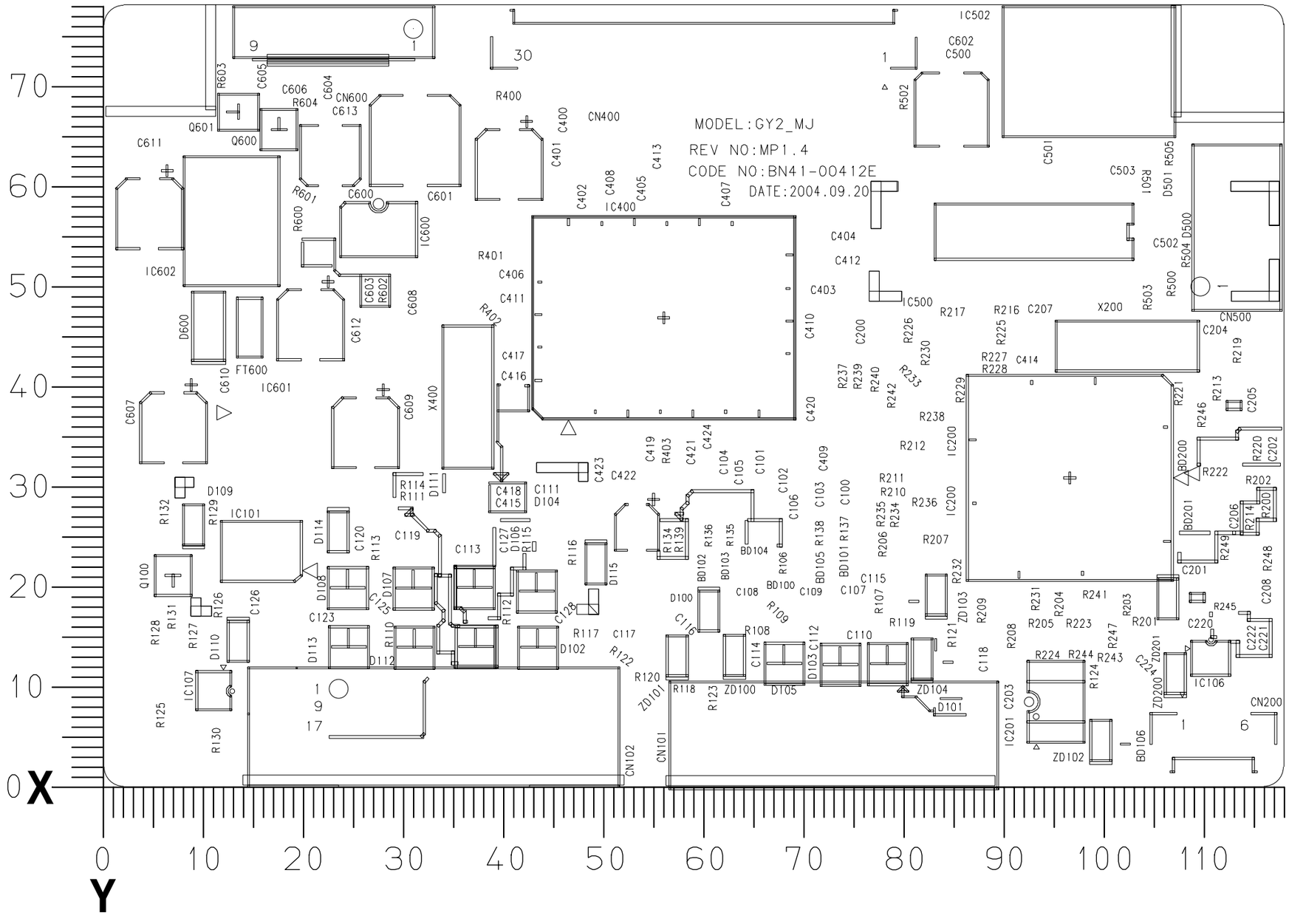


8-2 MJ15BS*/MJ17BS*/MJ19BS* DIGITAL Block Diagram



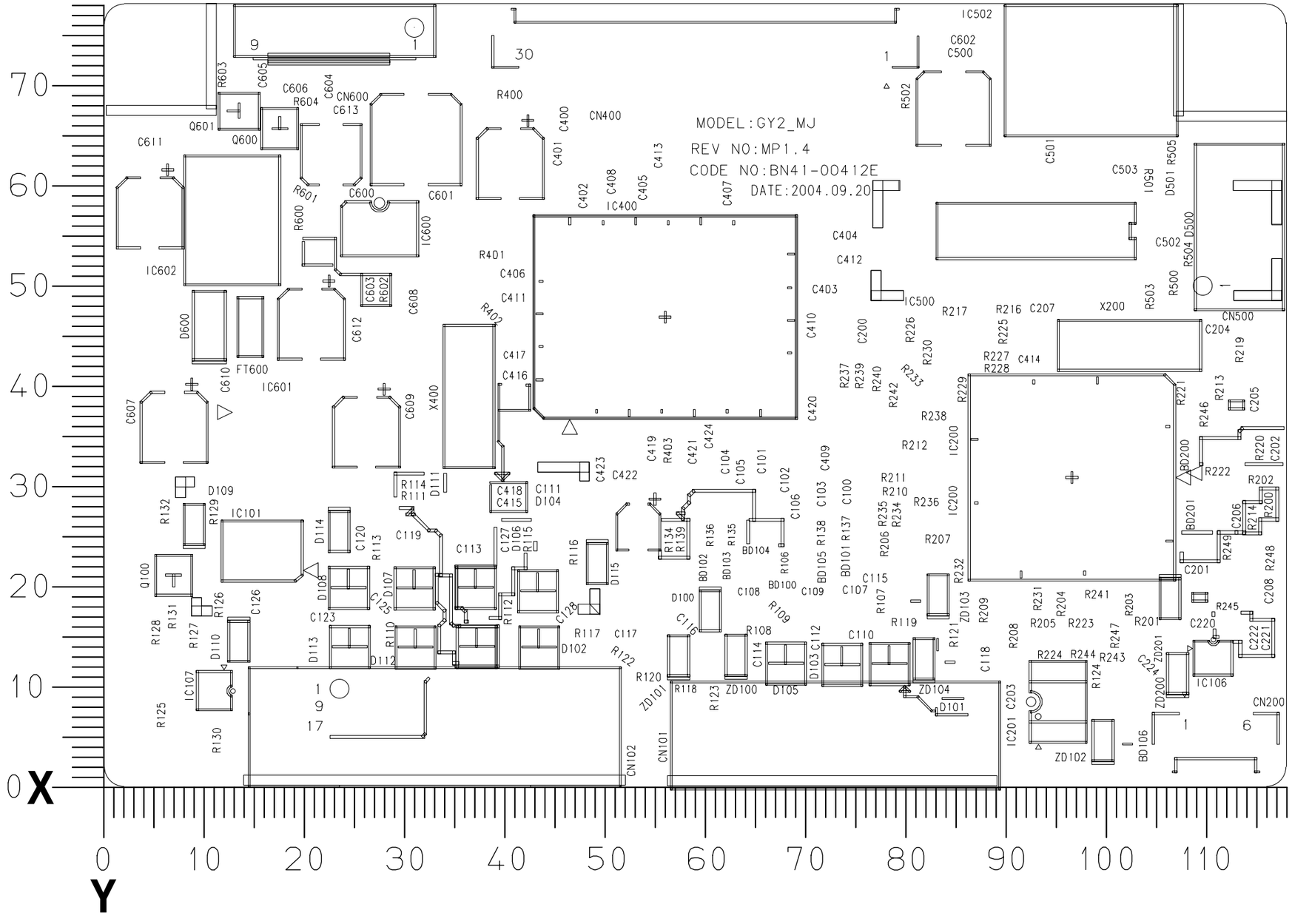
10 PCB Layout

10-1 MJ15AS* ANALOG PCB



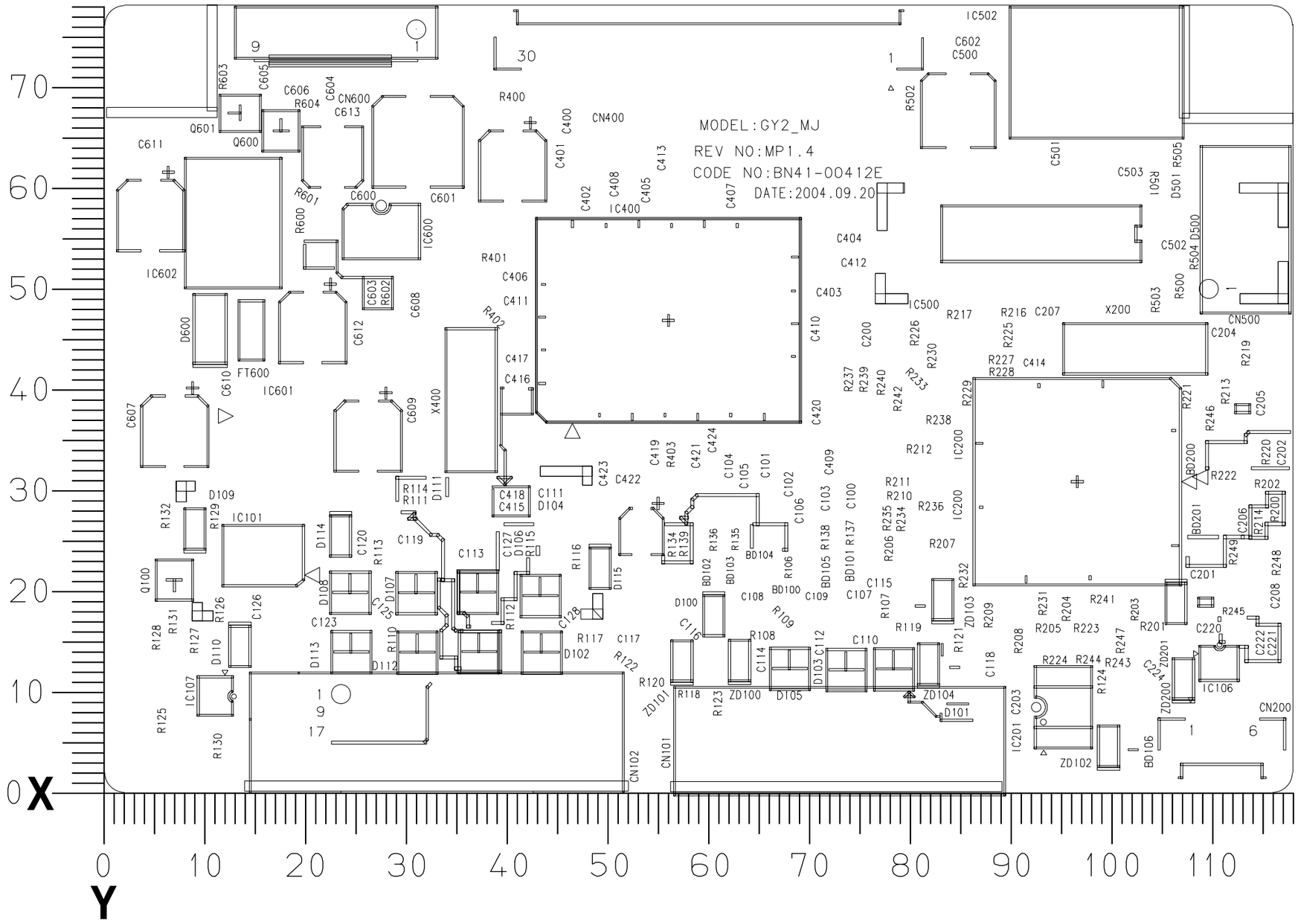
Loc. No.	Description	X	Y
DIODE			
D100	DIODE-ZENER	60.5	16.0
D101	DIODE-SWITCHING	78.3	12.3
D103	DIODE-SWITCHING	73.6	12.2
D105	DIODE-SWITCHING	68.0	12.4
D600	DIODE-RECTIFIER	10.5	46.1
ZD200	DIODE-ZENER	107.1	11.3
ZD600	DIODE-ZENER	17.1	69.6
IC			
IC105	DIODE-TVS	55.0	14.0
IC106	DIODE-TVS	110.7	12.9
IC200	IC-MICROCONTROLLER	96.6	30.9
IC201	IC-EEPROM	95.2	8.5
IC400	IC-LCD CONTROLLER	56.0	46.9
IC600	FET-SILICON	27.5	55.8
IC601	IC-DUAL VOLTAGE REGULATOR	17.4	35.5
IC602	IC-VOLTAGE REGULATOR	12.8	56.1

10-2 MJ15BS* DIGITAL PCB



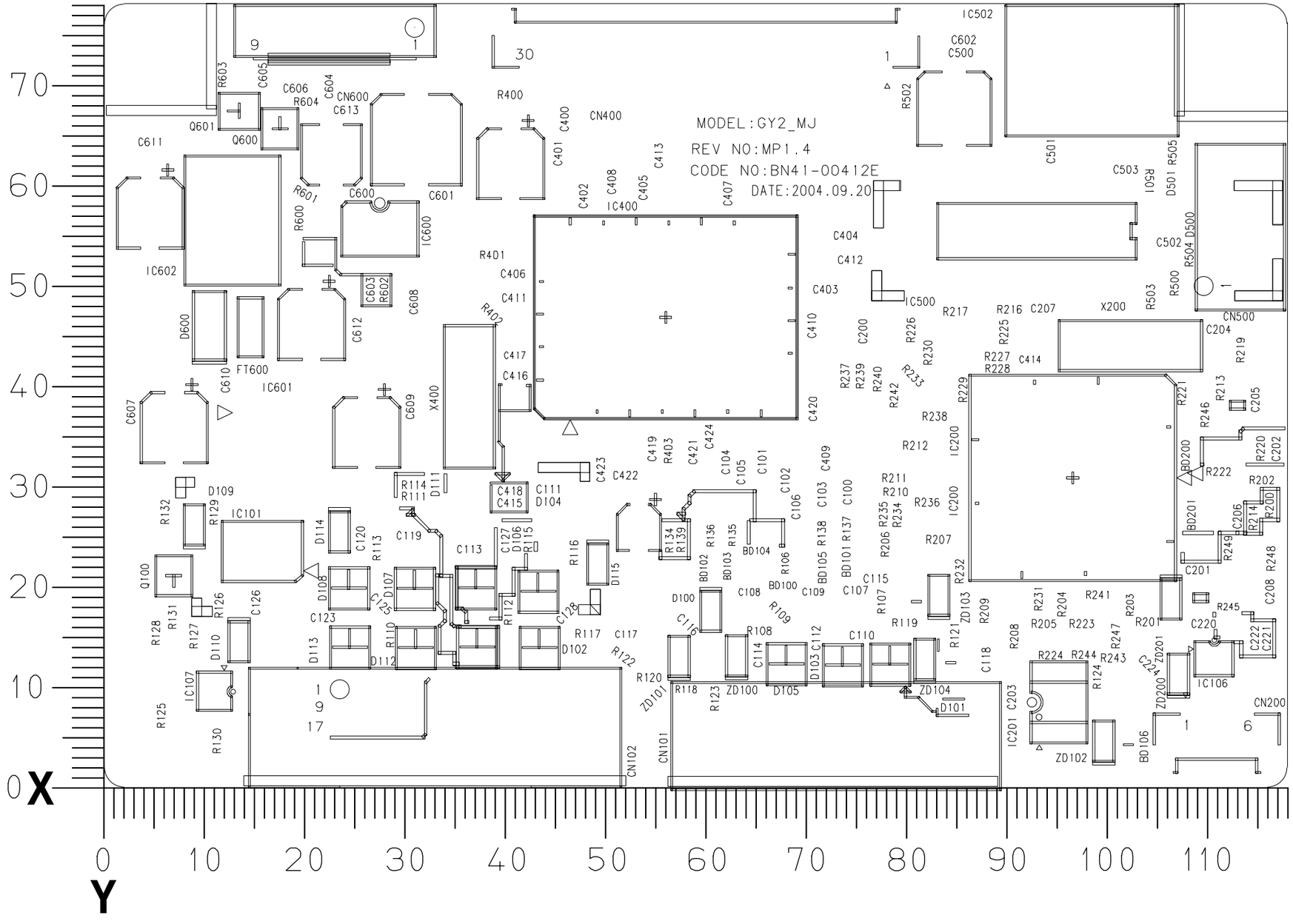
Loc. No.	Description	X	Y
DIODE			
D100	DIODE-ZENER	60.5	16.0
D101	DIODE-SWITCHING	78.3	12.3
D102	DIODE-SWITCHING	43.4	14.0
D103	DIODE-SWITCHING	73.6	12.2
D104	DIODE-SWITCHING	43.3	19.6
D105	DIODE-SWITCHING	68.0	12.4
D106	DIODE-SWITCHING	37.1	19.9
D107	DIODE-SWITCHING	31.0	19.9
D108	DIODE-SWITCHING	24.4	19.9
D109	DIODE-ZENER	9.0	26.2
D110	DIODE-ZENER	13.5	14.6
D111	DIODE-SWITCHING	37.2	14.0
D112	DIODE-SWITCHING	31.1	14.0
D113	DIODE-SWITCHING	24.5	14.0
D114	DIODE-ZENER	23.5	25.5
D115	DIODE-ZENER	49.2	22.3
D600	DIODE-RECTIFIER	10.5	46.1
ZD200	DIODE-ZENER	107.1	11.3
ZD600	DIODE-ZENER	17.1	69.6
IC			
IC101	IC-EEPROM	15.8	23.6
IC105	DIODE-TVS	55.0	14.0
IC106	DIODE-TVS	110.7	12.9
IC107	DIODE-TVS	11.0	9.6
IC200	IC-MICROCONTROLLER	96.6	30.9
IC201	IC-EEPROM	95.2	8.5
IC400	IC-LCD CONTROLLER	56.0	46.9
IC600	FET-SILICON	27.5	55.8
IC601	IC-DUAL VOLTAGE REGULATOR	17.4	35.5
IC602	IC-VOLTAGE REGULATOR	12.8	56.1
TRANSISTOR			
Q100	TR-SMALL SIGNAL	7.0	21.1

10-3 MJ17AS*/MJ19AS*/MJ19ES* ANALOG PCB



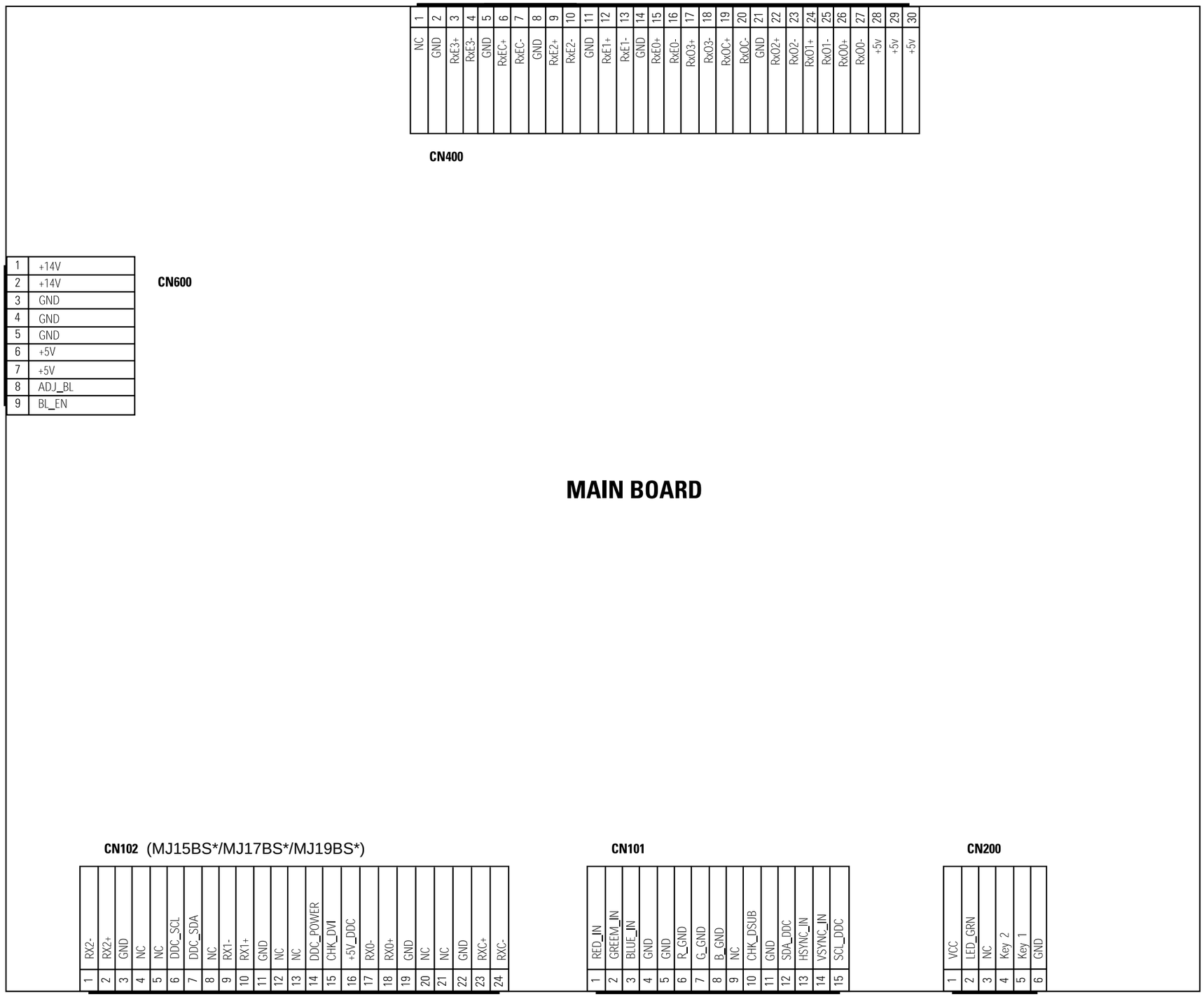
Loc. No.	Description	X	Y
DIODE			
D100	DIODE-ZENER	60.5	16.0
D101	DIODE-SWITCHING	78.3	12.3
D103	DIODE-SWITCHING	73.6	12.2
D105	DIODE-SWITCHING	68.0	12.4
D600	DIODE-RECTIFIER	10.5	46.1
ZD200	DIODE-ZENER	107.1	11.3
ZD600	DIODE-ZENER	17.1	69.6
IC			
IC105	DIODE-TVS	55.0	14.0
IC106	DIODE-TVS	110.7	12.9
IC200	IC-MICROCONTROLLER	96.6	30.9
IC201	IC-EEPROM	95.2	8.5
IC400	IC-LCD CONTROLLER	56.0	46.9
IC600	FET-SILICON	27.5	55.8
IC601	IC-DUAL VOLTAGE REGULATOR	17.4	35.5

10-4 MJ17BS*/MJ19BS* DIGITAL PCB



Loc. No.	Description	X	Y
DIODE			
D100	DIODE-ZENER	60.5	16.0
D101	DIODE-SWITCHING	78.3	12.3
D102	DIODE-SWITCHING	43.4	14.0
D103	DIODE-SWITCHING	73.6	12.2
D104	DIODE-SWITCHING	43.3	19.6
D105	DIODE-SWITCHING	68.0	12.4
D106	DIODE-SWITCHING	37.1	19.9
D107	DIODE-SWITCHING	31.0	19.9
D108	DIODE-SWITCHING	24.4	19.9
D109	DIODE-ZENER	9.0	26.2
D110	DIODE-ZENER	13.5	14.6
D111	DIODE-SWITCHING	37.2	14.0
D112	DIODE-SWITCHING	31.1	14.0
D113	DIODE-SWITCHING	24.5	14.0
D114	DIODE-ZENER	23.5	25.5
D115	DIODE-ZENER	49.2	22.3
D600	DIODE-RECTIFIER	10.5	46.1
ZD200	DIODE-ZENER	107.1	11.3
ZD600	DIODE-ZENER	17.1	69.6
IC			
IC101	IC-EEPROM	15.8	23.6
IC105	DIODE-TVS	55.0	14.0
IC106	DIODE-TVS	110.7	12.9
IC107	DIODE-TVS	11.0	9.6
IC200	IC-MICROCONTROLLER	96.6	30.9
IC201	IC-EEPROM	95.2	8.5
IC400	IC-LCD CONTROLLER	56.0	46.9
IC600	FET-SILICON	27.5	55.8
IC601	IC-DUAL VOLTAGE REGULATOR	17.4	35.5
TRANSISTOR			
Q100	TR-SMALL SIGNAL	7.0	21.1

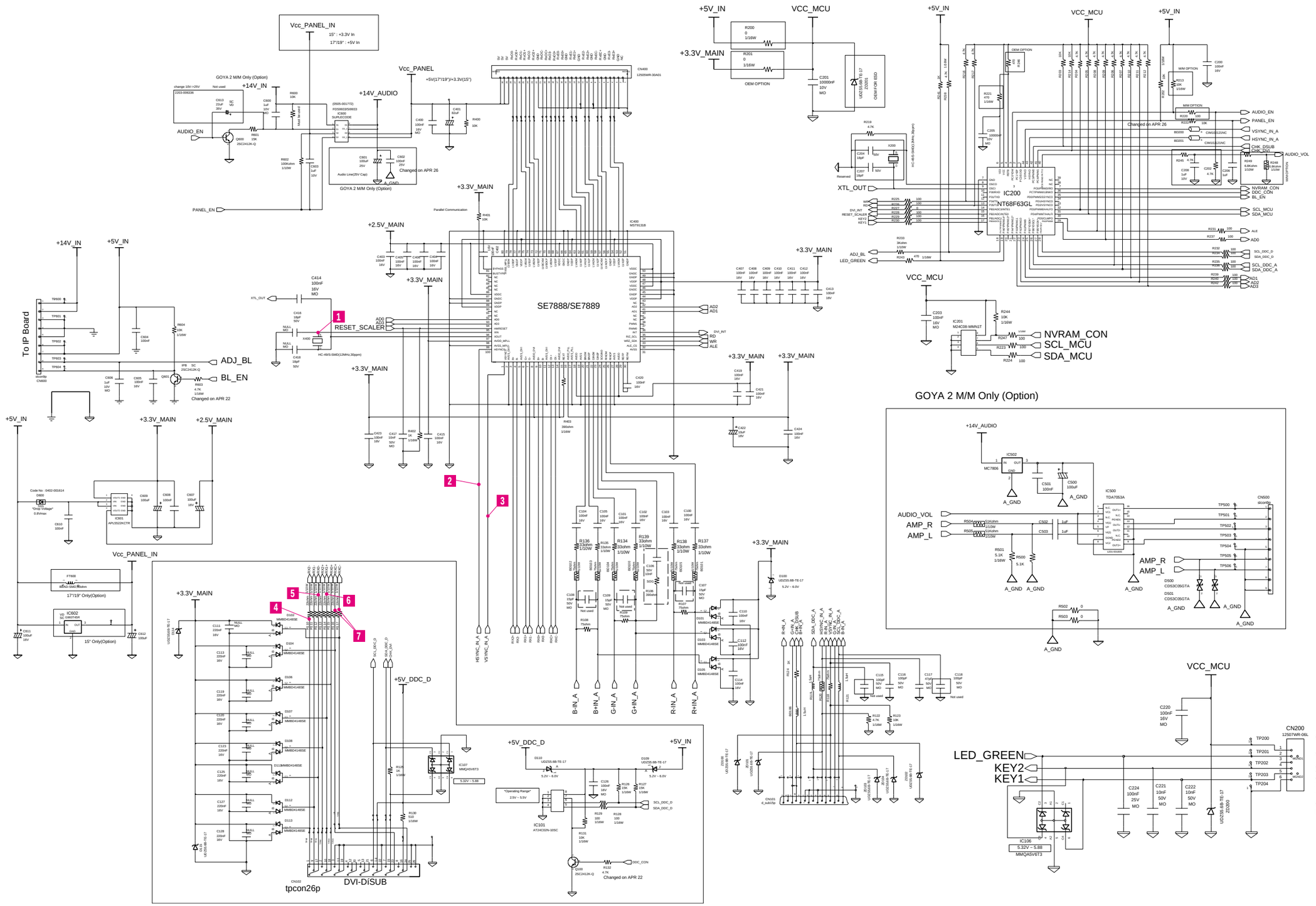
9 Wiring Diagram



Memo

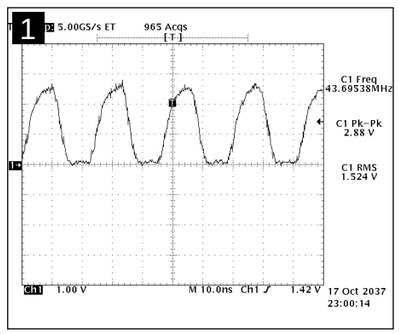
11 Schematic Diagrams

❋ This Document can not be used without Samsung's authorization.



11 Schematic Diagrams

1



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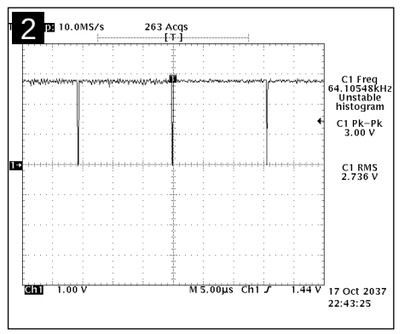

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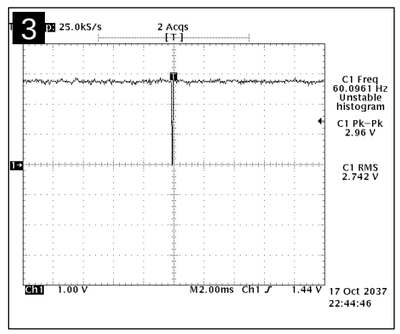

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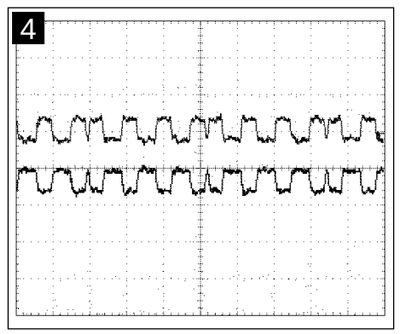

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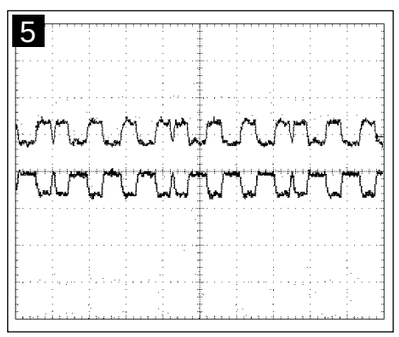

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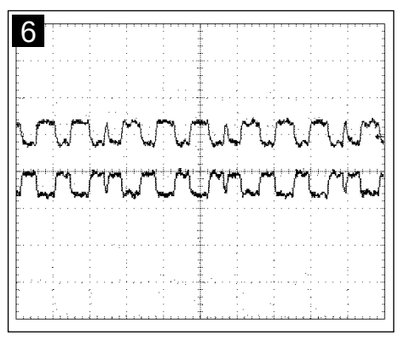

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